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February 25th, 2008

Mr. Che McFarlin
California Energy Commission
1516 Ninth Street
Sacramento, CA 95814

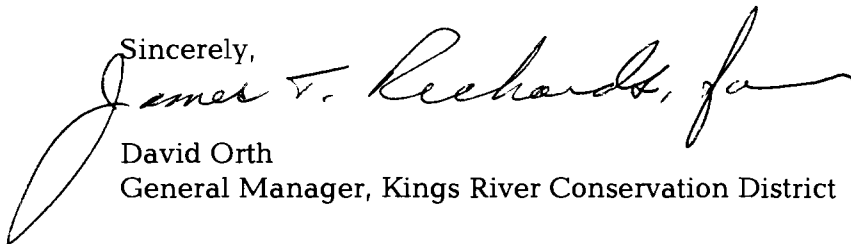
Re: Kings River Conservation District Community Power Plant Application for Certification (07-AFC-7) Responses to Data Requests 1-89

Dear Mr. McFarlin:

Kings River Conservation District (KRCD) hereby submits the attached responses to California Energy Commission (CEC) data requests 1-89 for the Kings River Conservation District Community Power Plant (KRCD CPP) Application for Certification (AFC). The KRCD CPP is a nominal 565 megawatt (MW) natural gas-fired combined cycle base load power plant to be located near the City of Parlier, in Fresno County.

As General Manager of KRCD, I hereby attest, under penalty of perjury, that the attached data request responses are true and accurate to the best of my knowledge. Please contact our consultant, Amy Cuellar of Navigant Consulting at (916) 631-3211 if you have any questions.

Sincerely,


David Orth
General Manager, Kings River Conservation District

| | |
|---------------|-------------|
| DOCKET | |
| 07-AFC-7 | |
| DATE | FEB 25 2008 |
| RECD. | FEB 25 2008 |

DO/JR/ss

File: 536.02
L08-0041

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BEFORE THE ENERGY RESOURCES CONSERVATION AND DEVELOPMENT COMMISSION OF THE
STATE OF CALIFORNIA

**APPLICATION FOR CERTIFICATION
for the *KINGS RIVER CONSERVATION
DISTRICT COMMUNITY POWER
PROJECT***

Docket No. 07-AFC-7

**PROOF OF SERVICE
(Established: 12/5/2007)**

INSTRUCTIONS: All parties shall either (1) send an original signed document plus 12 copies or (2) mail one original signed copy AND e-mail the document to the address for the Docket as shown below, AND (3) all parties shall also send a printed or electronic copy of the document, which includes a proof of service declaration to each of the individuals on the proof of service list shown below:

CALIFORNIA ENERGY COMMISSION
Attn: Docket No. 07-AFC-7
1516 Ninth Street, MS-14
Sacramento, CA 95814-5512
docket@energy.state.ca.us

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DECLARATION OF SERVICE

I, Ann Czerwonka, declare that on February 25, 2008, I deposited copies of the attached KRCD CPP (07-AFC-7) Responses to CEC data requests 1-89, in the United States mail at Sacramento, California with first-class postage thereon fully prepaid and addressed to those identified on the Proof of Service list above.

OR

Transmission via electronic mail was consistent with the requirements of California Code of Regulations, title 20, sections 1209, 1209.5, and 1210. All electronic copies were sent to all those identified on the Proof of Service list above.

I declare under penalty of perjury that the foregoing is true and correct.



A handwritten signature in cursive script, appearing to read "Ann Czerwonka", is written over a horizontal line.

**APPLICATION FOR CERTIFICATION 07-AFC-7
RESPONSES TO DATA REQUESTS 1-89**



**KRCD COMMUNITY
POWER PLANT**

Energy for our Future

**Submitted to:
CALIFORNIA ENERGY COMMISSION**

FEBRUARY 2008

**KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89**

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KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89

Technical Area: Air Quality

Data Request 1:

Please explain the differences between the emission values presented in Appendix 8.1-5 and Tables 8.1-17 to 20.

Response:

The annual emissions rates in Application for Certification (AFC) Volume 2 - Appendices 8.1-5a (GE) and 8.1-5b (Siemens), Table 22, have been multiplied by approximately 1.01 to show Kings River Conservation District Community Power Plant (KRCD CPP) annual emissions, which are shown in AFC Section 8.1–Air Quality, Tables 8.1-17 through 8.1-20. The intent is to provide an additional margin of 1% for calculation of the Emission Reduction Credits (ERCs) required by the KRCD CPP.



**KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89**

Technical Area: Air Quality

Data Request 2:

Please provide the correct facility emissions for NO_x, VOC, PM₁₀, SO_x and CO.

Response:

The annual emissions rates for the KRCD CPP are found in AFC Volume 2 - Appendices 8.1-5a and 8.1-5b, Table 22.



KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89

Technical Area: Air Quality

Data Request 3:

Please provide references of the cited PM_{2.5} emissions for the turbines, cooling tower, emergency generator, diesel fire pump, and auxiliary boiler.

Response:

The particulate matter 2.5 micrograms in diameter or smaller (PM_{2.5}) emissions rate of 0.00028 pounds per million British thermal units (lbs/MMBtu) cited in the AFC for the combustion turbines, auxiliary boiler and emergency diesel generator, all of which will be fueled by natural gas, comes from the following document, “*England, G.C., Development of Fine Particulate Emissions Factors and Speciation Profiles for Oil and Gas-fired Combustion Systems, Final Report, 2004*,” specifically Table 3-4. The PM_{2.5} emissions rate of 0.004 lbs/MMBtu cited in the AFC for the diesel fire pump comes from Table 3-5 of this document. No references were found for PM_{2.5} emissions from evaporative cooling towers. Since the implicit ratios of PM_{2.5}/particulate matter 10 micrograms in diameter or smaller (PM₁₀) for the gas and diesel-fired combustion equipment ranged from approximately 2 to 15%, a higher PM_{2.5}/PM₁₀ ratio (25%) was chosen for the cooling tower.

The most conservative approach for estimating PM_{2.5} emissions is to assume that 100% of PM₁₀ is PM_{2.5}. Note that even if all PM_{2.5} emissions rates (from all pieces of KRCD CPP equipment) are assumed as equal to the PM₁₀ emissions rates used in the AFC, the resulting impacts of PM_{2.5} will be no greater than those for PM₁₀. Since KRCD CPP will offset its PM₁₀ emissions by more than 100%, emissions of PM_{2.5} will also be offset by a like amount, and impacts from both PM₁₀ and PM_{2.5} emissions will be mitigated to levels of insignificance.



**KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89**

Technical Area: Air Quality

Data Request 4:

Please provide option contracts and/or evidence of acquisition of ERCs for the NO_x, VOC, SO_x, PM₁₀, and PM_{2.5} liability of the project.

Response:

Please see response to Data Request Number 5.



KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89

Technical Area: Air Quality

Data Request 5:

If the applicant is unable to adequately respond to the Data Request above, please provide a status report starting February 1, 2008 and continuing monthly until the report identifies option contracts and/or evidence of acquisition of ERCs for the NO_x, VOC, SO_x, PM₁₀ and PM_{2.5} liability of the project. The report should be specific to each pollutant and provide new information and update information from previous monthly status reports as appropriate. The reports should include for the ERCs:

- a) contact names and telephone numbers;
- b) company or source names;
- c) pollutant credit types and amounts in lbs/day;
- d) ERC certificate numbers;
- e) the methods of emission reductions (e.g., shutdown, reduction of hours of operation, emission controls, etc.);
- f) the status of ERC or option negotiations; and
- g) the location of the emission reduction credits.

Response:

Some of the information has been provided in the previously filed Confidential Offset Strategy which also includes a description of the overall acquisition strategy being implemented by KRCD. KRCD is working diligently with the San Joaquin Valley Air Pollution Control District (SJVAPCD) to meet its requirement that sufficient emissions offsets are identified to enable issuance of the Preliminary Determination of Compliance (PDOC). As discussed in the AFC, KRCD's primary focus is on creating new local offsets. KRCD will continue to update the CEC Staff by filing the Monthly Status Reports required by this data request beginning March 1, 2008. These Status Reports will be filed under a Request For Confidentiality.



**KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89**

Technical Area: Air Quality

Data Request 6:

Please provide the specific portion of PM10 to be mitigated with SOx emission reduction credits.

Response:

The actual amount of sulfur dioxide (SO₂) that will be used to offset PM10 emissions cannot be determined at this time, given the nature and potential sources of ERCs. However, it is estimated that on the order of 75 tons of SO₂ will be used to offset up to approximately 40 tons of PM10.



KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
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Technical Area: Air Quality

Data Request 7:

Please provide an analysis demonstrating the use of the proposed 1.87 to 1 SO_x for PM₁₀ trading ratio would mitigate the project's new PM₁₀/PM_{2.5} emissions impacts.

Response:

The 1.87:1 ratio for the use of SO₂ for PM₁₀ is based on an analysis performed by the SJVAPCD for Fresno County. Per discussions in January 2008, with James Sweet and Errol Villegas of the APCD, it was agreed that it makes the most sense to use an inter-pollutant offset ratio already developed by the SJVAPCD. Mr. Sweet has provided KRCD CPP with a spreadsheet, which documents the basis for the 1.87:1 ratio. This spreadsheet is included as Attachment Air-1.

Please contact Mr. Sweet, Atmospheric Modeler, at (559) 230-5810 or the SJVAPCD permit engineer for the KRCD CPP, Jerry Sandhu at (559) 230-5829, for additional information regarding this request.



**KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89**

ATTACHMENT AIR-1

Interpollutant Offset Ratio Spreadsheet



Notes for the Fresno/Madera Interpollutant Analysis

Combined emissions and inventories from Fresno and Madera Counties are used due to the evaluations of source interactions. This relationship was established by analysis performed for the SJVAPCD PM10 SIP.

The interpollutant relationship established for Fresno County in this analysis would also be applicable to Madera County.

| | | |
|--|-------|--|
| Tons of SOx to Equal Effect of 1 Ton of PM10 | 1.866 | See SOxPM10 worksheet for calculations |
|--|-------|--|

| | | |
|---|-------|--|
| Tons of NOx to Equal Effect of 1 ton PM10 | 4.202 | See NOxPM10 worksheet for calculations |
|---|-------|--|

Input data for the interpollutant worksheets are from the Annual and Annual based on Monthly worksheets

These worksheets are data and analyses submitted for the PM10 SIP

The AOI worksheet provides area of influence evaluations used to analyze specific episodes in the PM10 SIP

Episode evaluations reveal a variety of source areas for different episodes.

This justifies the use of the entire county, and in some cases more than one county, as the source area for annual interpollutant evaluation.

[illegible]

| PM10 Interpollutant Offset Ratio Analysis for Fresno County | | | | | |
|--|--|---------------------------|--------|----------|---|
| | | Notes | Units | Estimate | Uncertainty |
| PM10 | | | | | |
| "Vegetative Burning" Total | 1 | μg/m ³ | 7.48 | 2.43 | "Annual based on Monthly" speciation worksheet cells G6 and H6 |
| Industry Component (30%) | 2 | μg/m ³ | 2.24 | | "Fresno Annual" worksheet for speciated rollback analysis |
| Regional Background (20%) | 3 | μg/m ³ | 0.45 | | " |
| Industry minus Background | | μg/m ³ | 1.80 | | " |
| County Contribution | 4 | μg/m ³ | 0.90 | | " |
| Organic Carbon PM10 Inventory - Fresno/Madera Co. | 5 | ton/day | 5.63 | | " Required to use base year emissions that are related to the observed speciation |
| County Impact | | μg/m ³ per ton | 0.16 | 0.21 | |
| | | | | 0.11 | |
| Nitrate | | | | | |
| Ammonium Nitrate | 6 | μg/m ³ | 12.0 | 1.1 | Annual based on Monthly, speciation worksheet cells O6 and P6 |
| Regional Background | 7 | μg/m ³ | 1.00 | | "Fresno Annual" worksheet for speciated rollback analysis |
| Ammonium Nitrate minus Background | | μg/m ³ | 10.99 | | " |
| County Contribution | 8 | μg/m ³ | 5.50 | | " |
| NOx Inventory - Fresno/Madera Co. | 9 | ton/day | 144.78 | | " Required to use base year emissions that are related to the observed speciation |
| County Impact | | μg/m ³ per ton | 0.04 | 0.04 | |
| | | | | 0.03 | |
| Tons of NOx to Equal Effect of 1 ton PM10 | 10 | | 4.202 | 5.09 | 0.89 |
| | | | | 3.13 | -1.07 |
| 1. | Per SJVUAPCD and CARB, PM10 emissions from stationary industrial combustion sources are included in the Vegetative Burning category from Chemical Mass Balance modeling performed for the SJVUAPCD 2003 PM10 Attainment Plan (Fresno - Drummond monitoring station). | | | | |
| 2. | Per SJVUAPCD, 30% of this category is attributed to stationary industrial combustion sources. | | | | |
| 3. | Per SJVUAPCD, regional background is estimated to be 20% of net concentration after previous adjustment to Vegetative Burning category. | | | | |
| 4. | Contribution from sources within Fresno & Madera Counties is 50% of net concentration after previous adjustments to Vegetative Burning category. | | | | |
| 5. | Organic carbon PM10 inventory for Fresno/Madera Counties that contributes to this monitoring location; from SIP inventory with updates and adjustments based on CCOS study. | | | | |
| 6. | Ammonium nitrate category from Chemical Mass Balance modeling performed for the SJVUAPCD 2003 PM10 Attainment Plan (Fresno - Drummond monitoring station). | | | | |
| 7. | Per SJVUAPCD, regional background of ammonium nitrate is estimated to be 1 μg/m ³ . | | | | |
| 8. | Contribution from sources within Fresno County is 50% of net concentration after previous adjustment to Vegetative Burning category. | | | | |
| 9. | NOx inventory for Fresno County that contributes to this monitoring location; from SIP inventory with updates and adjustments based on CCOS study. | | | | |
| 10. | PM10 County Impact divided by Ammonium nitrate County Impact. | | | | |

| | A | B | C | D | E | F | G | H | I | J | K | L | M |
|----|--|--|--|---|--|--|---|--|--|---|---|---|-------------|
| | Fresno - Drummond, Annual, Design value = 50 | General Note | Geologic and Construction | Mobile Exhaust | Tire and Brake Wear | Organic Carbon | Vegetative Burning | Ammonium Nitrate including associated water | Ammonium Sulfate | Marine | Unassigned | | |
| 1 | Line1 Source Contribution from Analysis | From CMB monthly analysis Feb 2000 to Dec 2000, adding January 2001 episode for chemistry equivalent to annual design value | From CMB | From CMB | From CMB | Estimated portion of mass included in Vegetative Burning ≈30% | From CMB minus estimated Organic Carbon from other sources | From CMB | From CMB | From CMB, if present | Unaccounted mass from CMB, if any. | | |
| 2 | | | | | | | | | | | | | |
| 3 | LINE 1 | 50.00 | 19.50 | 4.60 | 0.70 | 2.25 | 5.25 | 12.00 | 2.60 | 0.00 | 3.1 | | |
| 4 | Line2 Natural and Transport Contribution, see "Background" sheet | Portion not included in rollback analysis, removed prior to rollback as not subject to local control, added back to projected future concentrations | see background sheet for numerical estimate and episode adjustment. Removed prior to rollback as not subject to local control, added back to projected future concentrations | 0, no natural background, transport estimated at 0 | 0, no natural background, transport estimated at 0 | see background sheet for numerical estimate and episode adjustment. Removed prior to rollback as not subject to local control, added back to projected future concentrations. Includes biogenic emissions. = 20% | see background sheet for numerical estimate and episode adjustment. Removed prior to rollback as not subject to local control, added back to projected future concentrations. Includes wildfires and biogenic. =20% + 10% | see background sheet for numerical estimate and episode adjustment. Removed prior to rollback as not subject to local control, added back to projected future concentrations | see background sheet for numerical estimate and episode adjustment. Removed prior to rollback as not subject to local control, added back to projected future concentrations | 100% because marine salts are a natural emission | 0, background estimate at maximum, no additional background estimate for unexplained mass | | |
| 5 | LINE 2 | 8.03 | 4.0 | 0.0 | 0.0 | 0.5 | 1.6 | 1.0 | 1.0 | | | | |
| 6 | Line 3 Net for Rollback | Net for Rollback, default percentages adjustable for episode characteristics, applicable to all columns except as indicated. | | | | | | Net for non-linear rollback, default percentages adjustable for episode characteristics | | Removed entirely from rollback, added back to result | | | |
| 7 | LINE 3 | 41.98 | 15.5 | 4.6 | 0.7 | 1.8 | 3.7 | 11.0 | 1.6 | 0.0 | 3.1 | | |
| 8 | Line4 Local Contribution PM2.5-PM10 Area of Influence | Source contribution from smallest area of influence, representative of large particle primary source area, includes all PM size emissions in the area - Rolled back against local area of influence emission estimates | 70%PM10 50%PM2.5 of net | 70%PM10 50%PM2.5 of net | 70%PM10 50%PM2.5 of net | 70%PM10 50%PM2.5 of net | 70%PM10 50%PM2.5 of net | 70%PM10 50%PM2.5 of net, non-linear rollback | 70%PM10 50%PM2.5 of net | | 70%PM10 50%PM2.5 of net | | |
| 9 | LINE 4 | 24.85 | 10.9 | 2.3 | 0.5 | 0.9 | 1.8 | 5.5 | 0.8 | | 2.2 | | |
| 10 | Line5 Local Contribution Area of Influence of PM2.5 | Rolled back against local PM2.5 area of influence emission estimates - episode specific adjustments based on meteorology and episode duration | 15%PM10 30%PM2.5 | 15%PM10 30%PM2.5 | 15%PM10 30%PM2.5 | 15%PM10 30%PM2.5 | 15%PM10 30%PM2.5 | 15%PM10 30%PM2.5 non-linear rollback | 15%PM10 30%PM2.5 | | 15%PM10 30%PM2.5 | | |
| 11 | LINE 5 | 9.70 | 2.3 | 1.4 | 0.1 | 0.54 | 1.1 | 3.3 | 0.5 | | 0.5 | | |
| 12 | Line6 Sub regional Contribution | Rolled back against specified County(ies) emission estimates - episode specific adjustments based on meteorology and episode duration | 10%PM10 15%PM2.5 | 10%PM10 15%PM2.5 | 10%PM10 15%PM2.5 | 10%PM10 15%PM2.5 | 10%PM10 15%PM2.5 | 10%PM10 15%PM2.5 non-linear rollback | 10%PM10 15%PM2.5 | | 10%PM10 15%PM2.5 | | |
| 13 | LINE 6 | 5.33 | 1.6 | 0.7 | 0.1 | 0.27 | 0.6 | 1.65 | 0.24 | | 0.3 | | |
| 14 | Line7 Regional Contribution | Rolled back against Valleywide emission estimates - episode specific adjustments based on meteorology and episode duration | 5%PM10 5%PM2.5 | 5%PM10 5%PM2.5 | 5%PM10 5%PM2.5 | 5%PM10 5%PM2.5 | 5%PM10 5%PM2.5 | 5%PM10 5%PM2.5 non-linear rollback | 5%PM10 5%PM2.5 | | 5%PM10 5%PM2.5 | | |
| 15 | LINE 7 | 2.10 | 0.8 | 0.2 | 0.0 | 0.09 | 0.2 | 0.55 | 0.08 | | 0.2 | | |
| 16 | Associated Emissions Categories | Based upon appropriate seasonal or annual inventory | PM10 paved roads+ PM10 unpaved roads+ PM10 farm operations+ PM10 construction+ PM10 windblown | PM10, TOG & CO onroad mobile+ PM10, TOG & CO 860 offroad equipment PM10, TOG & CO 870 farm equipment CO presumed to add minimal mass | Tire and brake wear as predicted by EMFAC2002 | Total TOG minus motor vehicle, OC may also include a small portion of otherwise unassigned elemental carbon PM10 & CO Area, Stationary CO presumed to add minimal mass | PM10 & CO residential burning PM10 & CO waste burning and disposal PM10 cooking PM10 & CO fires CO presumed to add minimal mass | Total E.I. NOx (+ bacterial soil NOx estimate removed as natural background) | Total SOx | None, natural emission from the ocean, bay and delta waters | Total PM10 | | |
| 17 | 1999 Emissions Inventory | (area of influence emissions inventory, each on a separate line for automated calculations) | | | | | | | | | | | |
| 18 | PM10 | L1= Area 3 | 7.236852297 | 1.55746265 | | 0.270246847 | 1.54732371 | | 2.946320228 | | | | 15.67865618 |
| 19 | | L2= Areas 3,4 | 26.02510179 | 2.26760773 | | 0.375484581 | 2.955506973 | | 5.732736172 | | | | 39.92145356 |
| 20 | | Sr= Fresno, Madera | 74.4504 | 4.1236 | | 0.511 | 5.6266 | | 10.4843 | | | | 94.6839 |
| 21 | | R= SJV | 230.9463 | 14.9086 | | 1.92 | 24.7498 | | 34.9152 | | | | 305.5217 |
| 22 | NOx | L1= Area 3 | | | | | | | | 53.21489079 | | | |
| 23 | | L2= Areas 3,4 | | | | | | | | 88.61773631 | | | |
| 24 | | Sr= Fresno, Madera | | | | | | | | 144.7763 | | | |
| 25 | | R= SJV | | | | | | | | 565.19 | | | |
| 26 | TOG | L1= Area 3 | | 22.7065618 | | | 132.7691237 | | | | | | |
| 27 | | L2= Areas 3,4 | | 33.470797 | | | 257.8874576 | | | | | | |
| 28 | | Sr= Fresno, Madera | | 58.2653 | | | 396.7168 | | | | | | |
| 29 | | R= SJV | | 205.9787 | | | 1241.6439 | | | | | | |
| 30 | SOx | L1= Area 3 | | | | | | | | | | | |
| 31 | | L2= Areas 3,4 | | | | | | | | 3.438823609 | | | |
| 32 | | Sr= Fresno, Madera | | | | | | | | 5.665348981 | | | |
| 33 | | R= SJV | | | | | | | | 9.0772 | | | |
| | | | | | | | | | | 30.2452 | | | |

| | A | B | C | D | E | F | G | H | I | J | K | L | M |
|-----|--|-------------------------------|---------------------------|----------------|---------------------|----------------|--------------------|-----|-------------|---|---------------------|--------|-------------|
| | Fresno - Drummond, Annual, Design value = 50 | General Note | Geologic and Construction | Mobile Exhaust | Tire and Brake Wear | Organic Carbon | Vegetative Burning | | | Ammonium Nitrate including associated water | Ammonium Sulfate | Marine | Unassigned |
| 1 | | | | | | | | | | | | | |
| 133 | 2010-2011 Emissions Inventory | | | | | | | | | | | | |
| 134 | PM10 2010 EI without new controls | L1= Area 3 | 8.129557667 | 1.44348865 | | 0.367960339 | 1.747683078 | | 3.262499732 | | | | 17.31537711 |
| 135 | | L2= Areas 3,4 | 29.27326116 | 2.15521975 | | 0.543853899 | 3.283480261 | | 6.107828372 | | | | 44.15866903 |
| 136 | | Sr= Fresno, Madera | 83.727 | 3.8288 | | 0.746828157 | 6.2618 | | 10.8882 | | | | 104.7058 |
| 137 | | R= SJV | 255.0794 | 13.3523 | | 2.63 | 27.9931 | | 35.1798 | | | | 331.6046 |
| 138 | PM10 2010 EI with new controls | L1= Area 3 | 6.809440309 | 1.38943472 | | 0.367960339 | 1.5244012 | | 2.650942087 | | | | 15.31076142 |
| 139 | | L2= Areas 3,4 | 24.51972576 | 2.07451381 | | 0.543853899 | 2.863986791 | | 4.962912068 | | | | 37.05429637 |
| 140 | | Sr= Fresno, Madera | 70.131 | 3.68542395 | | 0.746828157 | 5.4618 | | 8.8472 | | | | 84.47342395 |
| 141 | | R= SJV | 205.8304 | 12.8523 | | 2.63 | 26.3051 | | 29.2898 | | | | 265.2426 |
| 142 | NOx 2010 EI without new controls | L1= Area 3 | | | | | | | | 34.57241458 | | | |
| 143 | | L2= Areas 3,4 | | | | | | | | 62.07171354 | | | |
| 144 | | Sr= Fresno, Madera | | | | | | | | 103.4162 | | | |
| 145 | | R= SJV | | | | | | | | 401.6368 | | | |
| 146 | NOx 2010 EI with new controls | L1= Area 3 | | | | | | | | 31.73589191 | | | |
| 147 | | L2= Areas 3,4 | | | | | | | | 56.97898788 | | | |
| 148 | | Sr= Fresno, Madera | | | | | | | | 94.93133136 | | | |
| 149 | | R= SJV | | | | | | | | 364.0558 | | | |
| 150 | TOG 2010 EI without new controls | L1= Area 3 | | 11.5234286 | | | 156.7815607 | | | | | | |
| 151 | | L2= Areas 3,4 | | 17.8329166 | | | 304.4959518 | | | | | | |
| 152 | | Sr= Fresno, Madera | | 31.9684 | | | 468.3626 | | | | | | |
| 153 | | R= SJV | | 111.1259 | | | 1484.1355 | | | | | | |
| 154 | TOG 2010 EI with new controls | L1= Area 3 | | 11.5234286 | | | 156.7815607 | | | | | | |
| 155 | | L2= Areas 3,4 | | 17.8329166 | | | 304.4959518 | | | | | | |
| 156 | | Sr= Fresno, Madera | | 31.9684 | | | 468.3626 | | | | | | |
| 157 | | R= SJV | | 111.1259 | | | 1458.6195 | | | | | | |
| 158 | SOx 2010 EI without new controls | L1= Area 3 | | | | | | | | | 4.027627725 | | |
| 159 | | L2= Areas 3,4 | | | | | | | | | 6.605602158 | | |
| 160 | | Sr= Fresno, Madera | | | | | | | | | 10.6469 | | |
| 161 | | R= SJV | | | | | | | | | 33.341 | | |
| 162 | SOx 2010 EI with new controls | L1= Area 3 | | | | | | | | | 3.749205461 | | |
| 163 | | L2= Areas 3,4 | | | | | | | | | 6.148969412 | | |
| 164 | | Sr= Fresno, Madera | | | | | | | | | 9.9109 | | |
| 165 | | R= SJV | | | | | | | | | 27.083 | | |
| 210 | | | | | | | | | | | | | |
| 211 | 2010-2011 Rollback Projection | | | | | | | | | | | | |
| 212 | Local Contribution PM2.5-PM10 Area of Influence | =(2010 L1/1999 L1) * LINE 4 | 12.2 | 1.1 | 0.6 | 0.7 | 0.5 | 0.5 | 2.0 | 4.2 | 0.9 | | 2.4 |
| 213 | Local Contribution Area of Influence of PM2.5 | =(2010 L2/1999 L2) * LINE 5 | 2.6 | 0.7 | 0.4 | 0.2 | 0.3 | 0.3 | 1.2 | 2.6 | 0.6 | | 0.5 |
| 214 | Sub regional Contribution | =(2010 Sr1/1999 Sr2) * LINE 6 | 1.7 | 0.3 | 0.2 | 0.1 | 0.2 | 0.2 | 0.6 | 1.3 | 0.3 | | 0.3 |
| 215 | Regional Contribution | =(2010 R/1999 R) * LINE 7 | 0.9 | 0.1 | 0.1 | 0.0 | 0.1 | 0.1 | 0.2 | 0.4 | 0.1 | | 0.2 |
| 216 | + Natural Background contribution | = LINE 2 | 4.0 | 0.0 | | 0.0 | 0.5 | | 1.6 | 1.0 | 1.0 | 0.0 | 0.0 |
| 217 | 2010-2011 projected Annual Result | 49.71 | 21.4 | 2.1 | 1.2 | 1.0 | 1.5 | 1.1 | 5.5 | 9.6 | 2.9 | 0.0 | 3.4 |
| 218 | 2010-2011 Rollback Projection with additional controls | | | | | | | | | | | | |
| 219 | Local Contribution PM2.5-PM10 Area of Influence | =(2010 L1/1999 L1) * LINE 4 | 10.2 | 1.0 | 0.6 | 0.7 | 0.4 | 0.5 | 1.7 | 4.0 | 0.9 | | 2.1 |
| 220 | Local Contribution Area of Influence of PM2.5 | =(2010 L2/1999 L2) * LINE 5 | 2.2 | 0.6 | 0.4 | 0.2 | 0.3 | 0.3 | 1.0 | 2.5 | 0.5 | | 0.4 |
| 221 | Sub regional Contribution | =(2010 Sr1/1999 Sr2) * LINE 6 | 1.5 | 0.3 | 0.2 | 0.1 | 0.1 | 0.2 | 0.5 | 1.3 | 0.3 | | 0.3 |
| 222 | Regional Contribution | =(2010 R/1999 R) * LINE 7 | 0.7 | 0.1 | 0.1 | 0.0 | 0.0 | 0.1 | 0.2 | 0.4 | 0.1 | | 0.1 |
| 223 | + Natural Background contribution | = LINE 2 | 4.0 | 0.0 | | 0.0 | 0.5 | | 1.6 | 1.0 | 1.0 | 0.0 | 0.0 |
| 224 | 2010-2011 projected Annual Result | 44.90 | 18.6 | 2.1 | 1.2 | 1.0 | 1.3 | 1.1 | 4.8 | 9.2 | 2.7 | 0.0 | 3.0 |
| 225 | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | |
|--|------|-------|--------|--------------|----------------|---------|-----|---------------|-----|------------|-----|---------|-----|---------|-----|------------|-----|--------------------|------------|------|
| ANNUAL Average, based on CMB results for February to December 2000 plus the Jan 2001 Episode | | | | | | | | | | | | | | | | | | | | |
| | | | | Design Value | Sum of species | Burning | | Motor Vehicle | | Tire/Brake | | Sulfate | | Nitrate | | Geological | | Geological Profile | Unassigned | |
| SITEID | CONC | UCONC | PCMASS | | | | | Mass | | Mass | | Mass | | Mass | | Mass | | | | Mass |
| BGS | 57.7 | 3.6 | 98.5 | 57.0 | 55.6 | 6.3 | 2.3 | 3.6 | 2.4 | 1.1 | 1.2 | 3.0 | 0.3 | 14.9 | 1.3 | 26.7 | 5.8 | FDKERANN | 1.4 | |
| FSD | 49.5 | 3.2 | 98.4 | 50.0 | 46.9 | 7.5 | 2.4 | 4.6 | 2.8 | 0.7 | 0.7 | 2.6 | 0.3 | 12.0 | 1.1 | 19.5 | 3.3 | FDFSDANN | 3.1 | |
| HAN | 51.5 | 3.3 | 104.1 | 53.0 | 52.9 | 6.6 | 2.0 | 4.0 | 2.3 | 0.5 | 0.7 | 3.0 | 0.3 | 15.7 | 1.4 | 23.2 | 4.2 | FDHANANN | 0.1 | |
| VCS | 52.5 | 3.3 | 99.6 | 54.0 | 51.8 | 6.7 | 2.5 | 4.0 | 2.5 | 0.5 | 1.0 | 3.1 | 0.3 | 15.9 | 1.5 | 21.7 | 3.8 | FDVCSANN | 2.2 | |
| This analysis provides a seasonally adjusted annual average, using the January episode to reflect the dominant winter chemistry. | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |

Annual based on Monthly

| Bakersfield Golden State Monthly | | | | | | | Burning | | Motor Vehicle | | Tire/Brake | | Sulfate | | Nitrate | | Geological | | |
|----------------------------------|--------|-------|--------|-------|-----|-------|---------|---------|---------------|-----|------------|-----|---------|---------|---------|---------|------------|--------|--|
| SITEID | DATE | CONC | U CONC | PCMAS | RSQ | CHISQ | Mass | Unc | Mass | Unc | Mass | Unc | Mass | Unc | Mass | Unc | Mass | Unc | |
| BGS | 1/1/01 | 205 | 10.3 | 93.6 | 1.0 | 0.9 | 23.3 | 6.3 | 6.7 | 4.7 | 1.3 | 1.7 | 7.0 | 0.7 | 95.4 | 7.8 | 58.2 | 9.6 | |
| BGS | Feb | 24.4 | 1.9 | 96.4 | 1.0 | 0.7 | 4.1 | 2.3 | 1.7 | 1.3 | 0.6 | 0.6 | 1.2 | 0.1 | 5.1 | 0.6 | 10.9 | 3.2 | |
| BGS | Mar | 22.2 | 2.1 | 107.7 | 1.0 | 1.0 | 2.1 | 2.2 | 2.1 | 1.4 | 0.6 | 0.6 | 1.9 | 0.2 | 5.5 | 0.6 | 11.7 | 3.1 | |
| BGS | Apr | 31.5 | 2.4 | 107.8 | 1.0 | 0.4 | 6.3 | 3.2 | 2.1 | 1.7 | 0.5 | 0.7 | 3.0 | 0.3 | 4.9 | 0.6 | 17.3 | 4.6 | |
| BGS | May* | 34.6 | 2.5 | 118.5 | 1.0 | 0.5 | 0.3 | 0.4 | 5.3 | 2.6 | | | 3.1 | 0.3 | 4.5 | 0.5 | 27.8 | 5.7 | |
| BGS | Jun* | 41.3 | 2.7 | 102.7 | 1.0 | 0.6 | 0.9 | 0.4 | 5.1 | 2.6 | | | 3.8 | 0.3 | 3.1 | 0.4 | 29.4 | 6.0 | |
| BGS | Jul* | 37.0 | 2.6 | 101.3 | 0.9 | 2.2 | 7.1 | 1.1 | 0.2 | 1.4 | 2.4 | 1.4 | 2.1 | 0.2 | 2.2 | 0.3 | 23.4 | 5.9 | |
| BGS | Aug* | 43.5 | 2.6 | 97.8 | 1.0 | 1.2 | 4.1 | 0.8 | 2.2 | 1.9 | 0.5 | 1.4 | 2.5 | 0.3 | 2.9 | 0.4 | 30.2 | 6.5 | |
| BGS | Sep* | 78.6 | 4.7 | 98.3 | 0.9 | 1.2 | 3.5 | 1.4 | 4.5 | 3.3 | 0.8 | 2.7 | 3.0 | 0.4 | 3.6 | 0.4 | 61.9 | 12.5 | |
| BGS | Oct* | 36.1 | 2.8 | 83.9 | 1.0 | 1.0 | 3.5 | 0.7 | 1.6 | 1.3 | 1.4 | 1.0 | 1.9 | 0.2 | 5.2 | 0.6 | 16.7 | 4.3 | |
| BGS | Nov | 48.4 | 2.9 | 86.3 | 1.0 | 0.4 | 7.9 | 3.4 | 4.6 | 2.7 | 0.6 | 0.7 | 2.2 | 0.2 | 14.0 | 1.2 | 12.3 | 3.1 | |
| BGS | Dec | 90.2 | 5.1 | 87.4 | 1.0 | 0.6 | 12.5 | 5.1 | 7.0 | 4.2 | 2.1 | 1.2 | 4.3 | 0.4 | 32.2 | 2.7 | 20.9 | 5.4 | |
| Min | | 22.2 | 1.9 | 83.9 | 0.9 | 0.4 | 0.3 | 0.4 | 0.2 | 1.3 | 0.5 | 0.6 | 1.2 | 0.1 | 2.2 | 0.3 | 10.9 | 3.1 | |
| Avg | | 57.7 | 3.6 | 98.5 | 1.0 | 0.9 | 6.3 | 2.3 | 3.6 | 2.4 | 1.1 | 1.2 | 3.0 | 0.3 | 14.9 | 1.3 | 26.7 | 5.8 | |
| Max | | 205.0 | 10.3 | 118.5 | 1.0 | 2.2 | 23.3 | 6.3 | 7.0 | 4.7 | 2.4 | 2.7 | 7.0 | 0.7 | 95.4 | 7.8 | 61.9 | 12.5 | |
| Fresno Drummond Monthly | | | | | | | Burning | | Motor Vehicle | | Tire/Brake | | Sulfate | | Nitrate | | Geological | | |
| SITEID | DATE | CONC | U CONC | PCMAS | RSQ | CHISQ | Mass | Unc | Mass | Unc | Mass | Unc | Mass | Unc | Mass | Unc | Mass | Unc | |
| FSD | 1/1/01 | 186 | 9.4 | 87.9 | 1.0 | 1.1 | 40.1 | 11.3 | 18.5 | 9.6 | 2.5 | 1.5 | 5.0 | 0.7 | 62.4 | 5.1 | 35.1 | 6.8 | |
| FSD | Feb | 27.0 | 2.1 | 97.3 | 1.0 | 0.7 | 5.7 | 2.5 | 3.1 | 1.8 | 0.3 | 0.4 | 1.1 | 0.2 | 7.7 | 0.8 | 8.3 | 2.1 | |
| FSD | Mar | 23.9 | 2.1 | 116.0 | 1.0 | 0.7 | 4.6 | 2.4 | 3.1 | 1.8 | 0.1 | 0.4 | 1.8 | 0.2 | 8.2 | 0.9 | 9.9 | 2.3 | |
| FSD | Apr | 24.8 | 2.2 | 112.1 | 1.0 | 0.6 | 3.4 | 2.7 | 2.4 | 1.6 | 0.2 | 0.5 | 2.4 | 0.2 | 5.0 | 0.5 | 14.4 | 3.0 | |
| FSD | May** | 20.0 | 2.1 | 99.5 | 1.0 | 0.6 | 0.34456 | 0.32946 | 2.1 | 1.4 | | | 2.32687 | 0.22637 | 2.47743 | 0.32112 | 12.63 | 1.7055 | |
| FSD | Jun* | 34.1 | 2.5 | 105.8 | 1.0 | 1.0 | 1.9 | 0.4 | 3.8 | 2.3 | 0.0 | 0.6 | 4.2 | 0.4 | 3.6 | 0.4 | 22.5 | 3.8 | |
| FSD | Jul* | 26.4 | 2.3 | 100.6 | 1.0 | 0.6 | 1.0 | 0.4 | 1.5 | 1.3 | | | 1.7 | 0.2 | 2.7 | 0.3 | 19.6 | 2.2 | |
| FSD | Aug* | 38.2 | 2.5 | 90.2 | 0.9 | 2.7 | 3.8 | 0.7 | 0.9 | 1.5 | 1.4 | 0.9 | 2.0 | 0.3 | 3.3 | 0.4 | 23.1 | 4.3 | |
| FSD | Sep* | 56.7 | 3.3 | 92.8 | 1.0 | 0.9 | 1.5 | 0.6 | 3.4 | 2.5 | 0.9 | 1.0 | 2.6 | 0.4 | 3.6 | 0.4 | 40.6 | 6.0 | |
| FSD | Oct* | 50.7 | 3.4 | 93.5 | 1.0 | 0.5 | 1.8 | 0.4 | 4.5 | 2.6 | | | 2.2 | 0.3 | 8.4 | 0.8 | 30.6 | 3.3 | |
| FSD | Nov | 40.5 | 2.6 | 95.7 | 1.0 | 0.4 | 11.9 | 3.3 | 4.5 | 2.7 | 0.4 | 0.4 | 2.1 | 0.2 | 13.1 | 1.2 | 6.8 | 1.8 | |
| FSD | Dec | 65.8 | 3.9 | 89.7 | 1.0 | 0.8 | 13.7 | 4.3 | 7.3 | 3.8 | 0.8 | 0.6 | 3.2 | 0.3 | 23.4 | 2.0 | 10.6 | 2.6 | |
| Min | | 20.0 | 2.1 | 87.9 | 0.9 | 0.4 | 0.3 | 0.3 | 0.9 | 1.3 | 0.0 | 0.4 | 1.1 | 0.2 | 2.5 | 0.3 | 6.8 | 1.7 | |
| Avg | | 49.5 | 3.2 | 98.4 | 1.0 | 0.9 | 7.5 | 2.4 | 4.6 | 2.8 | 0.7 | 0.7 | 2.6 | 0.3 | 12.0 | 1.1 | 19.5 | 3.3 | |
| Max | | 186.0 | 9.4 | 116.0 | 1.0 | 2.7 | 40.1 | 11.3 | 18.5 | 9.6 | 2.5 | 1.5 | 5.0 | 0.7 | 62.4 | 5.1 | 40.6 | 6.8 | |

Annual based on Monthly

| Hanford Monthly | | | | | | | Burning | | Motor Vehicle | | Tire/Brake | | Sulfate | | Nitrate | | Geological | |
|-------------------------------|--------|-------|--------|-------|-----|-------|---------|---------|---------------|-----|------------|-----|---------|---------|---------|---------|------------|---------|
| SITEID | DATE | CONC | U CONC | PCMAS | RSQ | CHISQ | Mass | Unc | Mass | Unc | Mass | Unc | Mass | Unc | Mass | Unc | Mass | Unc |
| HAN | 1/7/01 | 185 | 9.6 | 102.9 | 1.0 | 0.4 | 27.6 | 9.7 | 14.7 | 7.8 | 1.7 | 1.1 | 7.2 | 0.7 | 96.9 | 7.9 | 42.4 | 7.7 |
| HAN | Feb | 20.0 | 1.8 | 105.0 | 0.9 | 0.5 | 5.0 | 1.7 | 1.4 | 1.0 | 0.0 | 0.3 | 1.4 | 0.2 | 8.6 | 0.9 | 4.6 | 1.3 |
| HAN | Mar | 21.4 | 2.0 | 100.3 | 0.9 | 0.5 | 4.0 | 1.8 | 1.6 | 1.0 | 0.2 | 0.3 | 1.8 | 0.2 | 7.1 | 0.7 | 6.8 | 1.8 |
| HAN | Apr* | 22.3 | 2.1 | 120.6 | 1.0 | 0.3 | 0.4 | 0.3 | 3.2 | 1.6 | | | 2.2 | 0.2 | 5.0 | 0.5 | 16.1 | 2.8 |
| HAN | May* | 24.4 | 2.1 | 107.3 | 1.0 | 0.3 | 1.16725 | 0.35652 | 2.4 | 1.4 | | | 2.44716 | 0.22382 | 3.77466 | 0.44049 | 16.4 | 2.79498 |
| HAN | Jun* | 31.3 | 2.5 | 107.9 | 1.0 | 0.4 | 3.2 | 0.5 | 2.4 | 1.6 | 0.2 | 0.6 | 3.8 | 0.3 | 4.1 | 0.5 | 20.1 | 4.1 |
| HAN | Jul* | 38.7 | 2.6 | 107.9 | 0.9 | 0.7 | 3.6 | 0.6 | 2.7 | 1.6 | 0.2 | 0.7 | 3.4 | 0.3 | 5.6 | 0.6 | 26.3 | 4.7 |
| HAN | Aug* | 43.3 | 2.6 | 103.7 | 0.9 | 0.5 | 4.2 | 0.6 | 1.9 | 1.5 | 0.3 | 0.8 | 2.0 | 0.2 | 2.7 | 0.4 | 33.8 | 5.7 |
| HAN | Sep* | 70.5 | 4.0 | 105.3 | 0.9 | 0.5 | 2.5 | 0.8 | 4.3 | 2.7 | 0.5 | 1.2 | 3.1 | 0.4 | 5.0 | 0.7 | 58.8 | 8.8 |
| HAN | Oct* | 51.8 | 3.4 | 90.9 | 1.0 | 0.3 | 1.0 | 0.5 | 3.7 | 2.2 | 0.2 | 0.8 | 2.4 | 0.3 | 7.6 | 0.8 | 32.2 | 5.8 |
| HAN | Nov | 46.4 | 2.8 | 107.6 | 1.0 | 0.4 | 13.5 | 3.6 | 4.8 | 2.9 | 1.0 | 0.5 | 2.4 | 0.3 | 17.7 | 1.5 | 10.5 | 2.7 |
| HAN | Dec | 62.8 | 3.6 | 89.4 | 1.0 | 0.5 | 12.4 | 3.4 | 4.4 | 2.5 | 0.9 | 0.5 | 3.7 | 0.4 | 23.9 | 2.1 | 10.7 | 2.8 |
| Min | | 20.0 | 1.8 | 89.4 | 0.9 | 0.3 | 0.4 | 0.3 | 1.4 | 1.0 | 0.0 | 0.3 | 1.4 | 0.2 | 2.7 | 0.4 | 4.6 | 1.3 |
| Avg | | 51.5 | 3.3 | 104.1 | 1.0 | 0.4 | 6.6 | 2.0 | 4.0 | 2.3 | 0.5 | 0.7 | 3.0 | 0.3 | 15.7 | 1.4 | 23.2 | 4.2 |
| Max | | 185.0 | 9.6 | 120.6 | 1.0 | 0.7 | 27.6 | 9.7 | 14.7 | 7.8 | 1.7 | 1.2 | 7.2 | 0.7 | 96.9 | 7.9 | 58.8 | 8.8 |
| Visalia Church Street Monthly | | | | | | | Burning | | Motor Vehicle | | Tire/Brake | | Sulfate | | Nitrate | | Geological | |
| SITEID | DATE | CONC | U CONC | PCMAS | RSQ | CHISQ | Mass | Unc | Mass | Unc | Mass | Unc | Mass | Unc | Mass | Unc | Mass | Unc |
| HAN | 1/7/01 | 185 | 9.6 | 102.9 | 1.0 | 0.4 | 27.6 | 9.7 | 14.7 | 7.8 | 1.7 | 1.1 | 7.2 | 0.7 | 96.9 | 7.9 | 42.4 | 7.7 |
| VCS | Feb | 25.0 | 2.1 | 99.8 | 1.0 | 0.5 | 5.3 | 2.1 | 2.0 | 1.3 | 0.0 | 0.5 | 1.1 | 0.1 | 9.0 | 1.0 | 7.6 | 1.9 |
| VCS | Mar | 27.5 | 2.2 | 102.9 | 1.0 | 1.0 | 4.8 | 2.2 | 2.9 | 1.7 | 0.1 | 0.5 | 2.1 | 0.2 | 10.0 | 0.9 | 8.4 | 1.9 |
| VCS | Apr | 26.2 | 2.2 | 115.3 | 1.0 | 0.7 | 5.6 | 2.8 | 1.7 | 1.6 | 0.6 | 0.6 | 2.8 | 0.3 | 5.9 | 0.6 | 13.7 | 2.9 |
| VCS | May** | 29.1 | 2.3 | 112.8 | 1.0 | 0.7 | 5.4 | 3.6 | 1.4 | 1.6 | | | 2.8 | 0.3 | 3.8 | 0.5 | 19.4 | 3.2 |
| VCS | Jun* | 42.0 | 2.7 | 106.1 | 1.0 | 0.7 | 0.8 | 0.4 | 4.9 | 2.7 | | | 5.4 | 0.5 | 5.2 | 0.6 | 28.2 | 3.9 |
| VCS | Jul* | 34.7 | 2.5 | 107.8 | 0.9 | 1.4 | 3.7 | 0.6 | 1.8 | 1.7 | 0.5 | 1.1 | 2.9 | 0.3 | 4.9 | 0.6 | 23.7 | 3.8 |
| VCS | Aug* | 44.9 | 2.7 | 98.5 | 0.9 | 1.3 | 3.6 | 0.7 | 1.4 | 1.6 | 0.3 | 1.4 | 2.3 | 0.3 | 4.2 | 0.5 | 32.4 | 4.9 |
| VCS | Sep* | 59.1 | 3.5 | 84.4 | 0.9 | 1.3 | 3.4 | 0.8 | 1.9 | 1.9 | 0.7 | 1.6 | 3.0 | 0.3 | 4.8 | 0.6 | 36.0 | 5.7 |
| VCS | Oct* | 53.7 | 3.5 | 83.6 | 1.0 | 0.6 | 1.6 | 0.7 | 4.4 | 2.6 | 0.0 | 1.4 | 2.4 | 0.3 | 9.8 | 1.0 | 26.7 | 4.5 |
| VCS | Nov | 37.3 | 2.5 | 94.1 | 1.0 | 0.6 | 5.8 | 3.1 | 6.1 | 2.9 | | | 1.8 | 0.2 | 10.9 | 1.0 | 10.5 | 2.1 |
| VCS | Dec | 65.0 | 3.8 | 87.5 | 1.0 | 0.9 | 12.7 | 3.6 | 4.6 | 2.7 | 0.6 | 0.7 | 3.2 | 0.3 | 24.8 | 2.1 | 11.2 | 2.6 |
| Min | | 25.0 | 2.1 | 83.6 | 0.9 | 0.4 | 0.8 | 0.4 | 1.4 | 1.3 | 0.0 | 0.5 | 1.1 | 0.1 | 3.8 | 0.5 | 7.6 | 1.9 |
| Avg | | 52.5 | 3.3 | 99.6 | 1.0 | 0.9 | 6.7 | 2.5 | 4.0 | 2.5 | 0.5 | 1.0 | 3.1 | 0.3 | 15.9 | 1.5 | 21.7 | 3.8 |
| Max | | 185.0 | 9.6 | 115.3 | 1.0 | 1.4 | 27.6 | 9.7 | 14.7 | 7.8 | 1.7 | 1.6 | 7.2 | 0.7 | 96.9 | 7.9 | 42.4 | 7.7 |

Annual based on Monthly

| | | | | | | | | | | | | | | | | | | | |
|---|----|---------------------|----------|--|----------|-----------|---|--|--|--|--|--|--|--|--|--|--|--|--|
| NOTES: Burning profile was switched from wood burning to agricultural burning based on ARB monthly emissions inventory estimates. | | | | | | | | | | | | | | | | | | | |
| Asterisk * denotes AgBWheat profile used; ** denotes WBAmond (some AgBWheat/WBAmond used in April/May) | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| Source Profiles | | | | | | | | | | | | | | | | | | | |
| | | Jan-May and Nov-Dec | | | June-Oct | | | | | | | | | | | | | | |
| Burning | 22 | WBOakEuc | | | 27 | AgBWheat* | | | | | | | | | | | | | |
| Sulfate | 57 | Amsul | | | 57 | Amsul | | | | | | | | | | | | | |
| Nitrate | 60 | Amnit | | | 60 | Amnit | | | | | | | | | | | | | |
| Motor Vehicle | 65 | CAMV | | | 65 | CAMV | | | | | | | | | | | | | |
| Tire/Brake | 67 | TireBrke | | | 67 | TireBrke | Note: (not used if run came out negative) | | | | | | | | | | | | |
| Geological | 92 | FDHANANN | | | 92 | FDHANANN | | | | | | | | | | | | | |
| | | 93 | FDFREANN | | | 93 | FDFREANN | | | | | | | | | | | | |
| | | 94 | FDVCSANN | | | 94 | FDVCSANN | | | | | | | | | | | | |
| | | 95 | FDKERANN | | | 95 | FDKERANN | | | | | | | | | | | | |

AOI

| | | Rollback default percentage, adjust by episode properties | | | | | | |
|--|------------------------------------|--|------------|-------------|-------------------|----------|------------|--|
| | | | Local | PM2.5 | Sub regional | Regional | Total | |
| | | Default 2.5-10 | 70 | 15 | 10 | 5 | 100 | |
| | | Default 2.5 | 50 | 30 | 15 | 5 | 100 | |
| | | Note: distribution of anthropogenic contribution after subtraction of background | | | | | | |
| Mapping of local, PM2.5-local, and sub-regional based on trajectory analysis | | | | | | | | |
| | | | Areas used | | | | | |
| 24-hr date | Site Name | Value | Local | PM2.5 | Sub regional | Regional | # of dates | |
| 11/6/97 | Corcoran-Patterson Avenue | 199 | | | | | | |
| 12/31/98 | Bakersfield-Golden State Highway | 159 | | | | | | |
| | Visalia-N Church Street | 160 | | | | | | |
| 1/12/99 | Oildale-3311 Manor Street | 156 | 12 | 12,13 | Kern | SJV | 1 | |
| 10/21/99 | Corcoran-Patterson Avenue | 174 | 6 | 5,6,7,8 | Kings-Tulare | SJV | 2 | |
| | Fresno-Drummond Street | 162 | 3 | 3,4 | Fresno-Madera | SJV | 3 | |
| | Turlock-S Minaret Street | 157 | 1 | 1,2 | Stanislaus-Merced | SJV | 4 | |
| 11/14/99 | Bakersfield-Golden State Highway | 183 | 12 | 6,7,8,10,12 | Kings-Tulare-Kern | SJV | 5 | |
| 12/11/99 | Hanford-S Irwin Street | 183 | | | | | | |
| 12/17/99 | Corcoran-Patterson Avenue | 174 | 6 | 6,8 | Kings-Tulare | SJV | 6 | |
| 12/23/99 | Fresno-Drummond Street | 168 | 3 | 3,4,7 | Fresno-Tulare | SJV | 7 | |
| | Hanford-S Irwin Street | 156 | 5 | 5,6,8 | Kings-Tulare | SJV | 8 | |
| 1/1/01 | Bakersfield-5558 California Avenue | 186 | 12 | 9,10,11,12 | Kern | SJV | 9 | |
| | Bakersfield-Golden State Highway | 205 | 12 | 9,10,11,12 | Kern | SJV | 10 | |
| | Clovis-N Villa Avenue | 155 | 3 | 3,4 | Fresno-Madera | SJV | 11 | |
| | Fresno-1st Street | 193 | 3 | 3,4 | Fresno-Madera | SJV | 12 | |
| | Fresno-Drummond Street | 186 | 3 | 3,4 | Fresno-Madera | SJV | 13 | |
| | Oildale-3311 Manor Street | 158 | 12 | 9,10,11,12 | Kern | SJV | 14 | |
| 1/4/01 | Bakersfield-5558 California Avenue | 190 | 12 | 10,12,13 | Kern | SJV | 15 | |
| | Bakersfield-Golden State Highway | 208 | 12 | 10,12,13 | Kern | SJV | 16 | |
| | Fresno-Drummond Street | 159 | 3 | 3,4 | Fresno-Madera | SJV | 17 | |
| | Oildale-3311 Manor Street | 195 | 12 | 10,12,13 | Kern | SJV | 18 | |
| 1/7/01 | Bakersfield-5558 California Avenue | 159 | 12 | 10,12 | Kern | SJV | 19 | |
| | Bakersfield-Golden State Highway | 174 | 12 | 10,12 | Kern | SJV | 20 | |
| | Corcoran-Patterson Avenue | 165 | 6 | 6,8,10,12 | Kings-Tulare-Kern | SJV | 21 | |
| | Hanford-S Irwin Street | 185 | 5 | 5,6,7,8,10 | Kings-Tulare-Kern | SJV | 22 | |
| | Modesto-14th Street | 158 | 1 | 1,2 | St-Me-Ma- Fr-Tu | SJV | 23 | |
| 11/9/01 | Hanford-S Irwin Street | 155 | 5 | 5,7,8 | Kings-Tulare | SJV | 24 | |

| | | | | | Areas used | | | | |
|--------|--------|-------|-------|-------|--------------|----------|--|--|--|
| Annual | County | Value | Local | PM2.5 | Sub regional | Regional | | | |
| | Kern | 57 | 12 | Kern | Kern | SJV | | | |

PM-10 SIP Regions
based on
4k CCAQS Domain
(county influenced cells)

KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89

Technical Area: Air Quality

Data Request 8:

Please provide an analysis to demonstrate the feasibility of employing either the Rapid Start Process by GE or the Quick Start Process by Siemens as a mitigation measure to reduce the facility emission liability.

Response:

As described in AFC, Section 8.1-Air Quality, the KRCD CPP has proposed best available control technology (BACT) levels, which will minimize emissions of KRCD CPP criteria pollutants. These BACT levels are subject to the review and approval of the SJVAPCD. Further, the Air Quality Impact Analysis provided in AFC Sections 8.1.3.4 and 8.1.3.5 demonstrates that KRCD CPP emissions will not cause or significantly contribute to a violation of any Ambient Air Quality Standards. Finally, the KRCD CPP will provide emissions mitigation of 100% or more for all non-attainment emissions (and non-attainment emissions precursor pollutants). Therefore, the emissions of these pollutants will be fully mitigated or more than fully mitigated. Because KRCD CPP emissions will be mitigated to levels of insignificance through the use of ERCs, no additional mitigation measures, such as those described in this Data Request, are necessary.



KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89

Technical Area: Air Quality

Data Request 9:

Please provide discussion about the feasibility of using ultra-low sulfur diesel, which contains no more than 15 ppm sulfur, as fuel, for the fire pump engine and emergency generator.

Response:

Equipment selection of the fire pump engine and emergency generator will likely not take place until after a final decision has been made by the CEC regarding issuance of a Site Certificate. However, based on recent discussions with vendors of diesel fire pump drivers of the type and size required for the KRCD CPP, the use of ultra-low sulfur diesel fuel appears feasible for this application, and sufficient quantities of ultra-low sulfur diesel fuel appear to be available in the local area.

As noted in the AFC, the KRCD CPP intends to use ultra-low sulfur diesel fuel for the diesel fire pump, provided the use of this fuel is feasible. Assuming the circumstances described above (i.e., engine-fuel compatibility and fuel availability) are in effect when the project procures and subsequently operates the diesel fire pump, the KRCD CPP will use ultra-low sulfur diesel fuel for the fire pump.

The emergency generator will use natural gas fuel, making the use of ultra-low sulfur diesel infeasible.



**KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
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RESPONSES TO DATA REQUESTS 1-89**

Technical Area: Air Quality

Data Request 10:

Please provide a text file describing the provided input and output modeling files.

Response:

A summary of all output files can be found in the Air Quality Appendix 8.1-6, Air Dispersion Modeling Data, under the sections GE Modeling Output Summary and Siemens Modeling Output Summary. These summaries list the modeling output file name, which modeling case/scenario the file represents, as well as where the emission rate can be found, which pollutant is included, and the resulting predicted highest concentration and its location. The input files have the same names, except with a “.INP” extension.



**KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
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RESPONSES TO DATA REQUESTS 1-89**

Technical Area: Air Quality

Data Request 11:

Please provide the missing output files (in electronic format) for the Siemens turbines.

Response:

The Siemens 1-hour nitrogen dioxide (NO₂) output files were mistakenly omitted from the AFC and are included as Attachment Air-2.



**KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
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ATTACHMENT AIR-2

Siemens 1-hr NO₂ Files
(provided in electronic format)



**KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89**

Technical Area: Air Quality

Data Request 12:

Please provide discussions of why more recent ozone data are not used in the modeling analysis to evaluate the project's one-hour NO₂ emission impacts.

Response:

The ozone data and meteorological data should be concurrent when performing the hourly ozone limiting analysis; otherwise the meteorology that may cause high ozone concentrations will not match the measured ozone concentrations. As identified in the air dispersion modeling protocol (AFC Appendix 8.1-2), 1989 meteorological data were recommended by the SJVAPCD for the air quality analysis therefore, 1989 ozone data were also used.



KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89

Technical Area: Air Quality

Data Request 13:

Please provide the cumulative impacts analysis that includes analyses of cumulative impacts for the 1-hour NO₂ and the 24-hour PM₁₀ and PM_{2.5} standards.

Response:

KRCD has requested the information necessary to perform a cumulative impacts analysis from the SJVAPCD. This request was originally made in January 2007 and due to miscommunication with the SJVAPCD Public Information Office the information was not provided. The request has been followed up, most recently in January 2008. Upon receipt of this data, the analysis for 1-hour NO₂ impacts will be performed. Since PM₁₀ impacts are less than the applicable significance levels, a cumulative impacts analysis is not necessary. Although PM_{2.5} significance levels have not been established, analogous to PM₁₀ impacts, it is reasonable to conclude that KRCD CPP PM_{2.5} impacts are less than significant and that a cumulative impacts analysis is also not necessary. KRCD anticipates being able to provide the cumulative impacts analysis in early April 2008.



KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89

Technical Area: Biological Resources

Data Request 14:

Please contact the California Department of Fish and Game (CDFG) and provide a report of conversation that includes information about whether the proposed project will need to acquire a Streambed Alteration Agreement and any guidance provided by CDFG. Please also provide contact information for the CDFG staff person who provides comments, copies of any written materials provided by KRCD to CDFG related to the Streambed Alteration Agreement, an estimated schedule for the CDFG submittals and permits, and a copy of any written correspondence that CDFG provides related to the streambed issue.

Response:

Biological resources consultant to KRCD, Halstead & Associates contacted the California Department of Fish and Game (CDFG) by letter on January 22, 2008 asking if a Streambed Alteration Agreement (SAA) will be necessary for the KRCD CPP. A copy of that letter is included as Attachment Bio-1. Enclosed with that letter was a copy of the Wetlands and Waters Evaluation (May 2007) report by Halstead & Associates to provide background information to the CDFG. The Wetlands and Waters Evaluation is Appendix 8.16-3 in the KRCD CPP AFC. AFC Appendix 8.16-3 states that a SAA would not be necessary for the KRCD CPP because all work would occur outside the bed, bank, and riparian habitat of the Kings River and intermittent drainages of Cross Creek and that no impacts would occur to those resources. Furthermore, numerous preventive measures (such as buffer zones, fencing, restricted work areas, signage, educational program, on-site biologist, pre- and post-monitoring) were incorporated into the KRCD CPP to completely avoid any potential impacts.

On February 13, 2008, the CDFG (along with the biologists from the CEC, U. S. Fish and Wildlife Service, and Halstead & Associates) toured the KRCD CPP project area and examined the understream crossing areas along the natural gas pipeline route to determine if a SAA would be necessary. The CDFG stated that they thought a SAA might be needed, but would have to forward pertinent project information to CDFG legal staff in Sacramento for an official CDFG opinion on whether or not a SAA would be required. The CDFG noted that it may take several months to get an opinion back from their legal staff. Due to the potential project delays associated with CDFG review for a determination on whether or not a SAA would be necessary, KRCD and Halstead & Associates decided to proceed in preparing the documents necessary to obtain a SAA for the gas pipeline crossings underneath the Kings River and intermittent



KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89

drainages of Cross Creek rather than waiting for a legal opinion from the CDFG. The SAA application will be completed and submitted to the CDFG in spring 2008. Issuance of a SAA would likely occur in summer or fall of 2008. A copy of the SAA application will be forwarded to the CEC when it becomes available.

An updated Record of Conversation (see AFC Appendix 8.16-9) was also prepared and is included as Attachment Bio-2.



**KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89**

ATTACHMENT BIO-1

Correspondence to CDFG



HALSTEAD & ASSOCIATES
Environmental / Biological Consultants

296 Burgan Avenue, Clovis, CA 93611
Office (559) 298-2334; Mobile (559) 970-2875
Fax (559) 322-0769; HalsteadEnv@aol.com

January 22, 2008

Mr. Brian Erlandsen
California Department of Fish and Game
San Joaquin Valley and Southern Sierra Region
Environmental Services Section, Stream Alteration Agreements
1234 E. Shaw Avenue
Fresno, CA 93710

RE: Kings River Conservation District's Community Power Plant (Fresno & Tulare Counties)
Potential Need for a Stream Alteration Agreement for the Project

Dear Brian:

The Kings River Conservation District is proposing a 565 megawatt natural gas-fired power plant near the City of Parlier (Fresno County, California) and has filing an Application For Certification (AFC) with the California Energy Commission (CEC) for permitting of the plant. Specifically, the plant will set upon a 20 acre parcel just northeast of the intersection of Bethel and Dinuba Avenues. A 15-acre parcel south of the plant site and a 60-acre parcel west of the site will be used as construction yards for the project. The project involves four basic components including the power plant site, natural gas pipeline, water pipeline, and transmission lines (see attached map). Many miles of water pipeline, transmission lines, and gas pipeline are proposed for the project. The first two structures will occur in Fresno County and the gas pipeline will interconnect with an existing gas pipeline near Visalia in Tulare County and run north to the power plant site in Fresno County.

In May 2007, we conducted reconnaissance surveys to evaluate if wetlands and waters occur on the project site and along the water, gas, and transmission line routes. Also, the field surveys were used to examine, evaluate, and determine if wetlands or waters occur on adjacent private lands and could be impacted by the project. Three areas with wetlands and waters occur along the project routes including:

- Cross Creek area south of Traver

(Section 34, Township 17S, Range 23E, Traver Quad, Tulare County)

- Kings River near Kingsburg
(Section 17, Township 16S, Range 23E, Reedley Quad, Fresno County)

- Manning Recharge Basin north of Selma
(Sec. 21, Township 15S, Range 22E, Selma Quad, Fresno County)

The Cross Creek area is annual grassland habitat that has six intermittent drainages, some of which are wetlands and some are waters. The gas pipeline will occur in the Road 60 right-of-way; however, private lands adjacent to the right-of-way have wetland ponds, vernal pool wetlands, the endangered Vernal Pool Tadpole Shrimp, Critical Habitats, and potentially other sensitive species too. The Kings River at the gas pipeline route is a waters and has wetland and riparian habitat along its banks. The Manning Recharge Basin has poor quality wetland habitat in the bed of its basin and its banks have upland habitat.

The project has been designed to avoid and/or lessen impacts to wetlands and waters. Examples of such actions include the locating and constructing of the gas pipeline and the water pipeline in the right-of-ways of existing roads. Also, the use of Jack and Bore and Horizontal Directional Drilling techniques to install the gas pipeline underneath the Kings River and the intermittent drainages in the Cross Creek area avoids project impacts at those locales. At the Manning Recharge Basin, four H-framed transmission line towers (with a total of eight legs) will be constructed and erected inside the basin. The footprint of the towers will permanently impact approximately 0.003 acres of poor quality wetland habitat. During construction and erection of the towers, some temporary impacts will also occur to approximately one acre of poor quality wetland habitat in the basin, but that area will be restored.

As noted above and in our Wetlands and Waters Evaluation (enclosed), the KRCD will bore underneath the Kings River and intermittent drainages in the Cross Creek area. No work or impacts will occur in the bed or bank of these waters or in riparian or wetland habitat along their banks. A buffer zone of 500 feet outward on either side of the riparian habitat of the Kings River will occur. A buffer zone of 50 feet outward on either side of the intermittent drainages in the Cross Creek area will occur.

In the AFC, we noted that a Stream Alteration Agreement (1602 Permit) would not be necessary due to the implementation of protective measures and the complete avoidance of the intermittent drainages, waters, and riparian habitat. The CEC has asked that we double check with you on whether or not the KRCD will need a Stream Alteration Agreement (see their attached Data Request). Would you please send

us a letter or email concerning the need for a Stream Alteration Agreement and any additional guidance.

Sincerely,

Jeffrey A. & Pamela S. Halstead
Owners/Partners/Biologists

cc: Mr. Jim Richards (KRCD)
Ms. Amy Cuellar (Navigant Consulting, Inc.)

**KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89**

ATTACHMENT BIO-2

Record of Conversation (updated)



KRCD CPP

RECORD OF CORRESPONDENCE (November 2007 thru January 2008)

Telephone, email, and personal communications (Biological Resources)

Halstead & Associates, Environmental/Biological Consultants

November 01, 2007

Email to Ramon Aberasturi (ACOE, Sacramento)

We emailed to inquire about their jurisdiction in the Manning Recharge Basin and use of Nationwide Permit #12 for wetland impacts.

December 05, 2007

Email to Jeff Jorgenson (USFWS, Sacramento)

Email regarding their receipt of the Biological Assessment Report.

December 06, 2007

Email from Jeff Jorgenson (USFWS, Sacramento)

Jeff received two copies of the Biological Assessment Report.

December 06, 2007

Telephone conversation with Ramon Aberasturi (ACOE, Sacramento)

He called regarding another project, but we inquired about their jurisdiction in the Manning Recharge Basin and use of Nationwide Permit #12 for wetland impacts. He recommended that we send maps and a project description and he will review for applicability.

January 10, 2008

Email to Jeff Jorgenson (USFWS, Sacramento)

We emailed about when he will review the Biological Assessment Report and provide comments. We also informed him that the proposed protocol biological surveys were underway or scheduled.

January 22, 2008

Letter to Brian Erlandsen (CDFG, Fresno)

We sent a letter regarding the potential need to obtain a Stream Alteration Agreement (1602 Permit) for the project. For background, we sent a copy of our Wetlands and Waters Evaluation (May 2007) report to him. This action was conducted to satisfy the CEC's Data Request #14.

January 22, 2008

Email to Ramon Aberasturi (ACOE, Sacramento)

We sent a letter inquiring about their jurisdiction in the Manning Recharge Basin and use of Nationwide Permit #12 for wetland impacts. For background, we sent a copy of our Wetlands and Waters Evaluation (May 2007) report to him.

January 25, 2008

Telephone call to Jeff Jorgenson (USFWS, Sacramento)

We called regarding his review of the Biological Assessment Report and he reported no major problems. He has been in contact with Brian McCollough (CEC) and would like to tour the project site for further evaluation. A site-tour will be conducted in the future.

January 31, 2008

Email from Jeff Jorgenson (USFWS, Sacramento)

Email regarding setup of a tour of the project site for February 13, 2008.

January 31, 2008

Email from Brian McCollough (CEC, Sacramento)

Email regarding setup of a tour of the project site for February 13, 2008.

KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89

Technical Area: Cultural Resources

Data Request 15:

Please provide descriptions of the anticipated maximum lateral and vertical extents of the ground disturbance that may result from the construction, operation, and maintenance of the main plant facility, the new natural gas pipeline, the new electric transmission line, the water supply line from Lincoln Ponds at the Sanger Wastewater Treatment Plant (WWTP), the water supply line from the Parlier WWTP into the adjacent main plant facility, and the new main plant facility wells.

Response:

Lateral ground disturbance for both the proposed gas and water pipeline installation is estimated at approximately 25 feet in width. This estimate includes pipeline burial area, temporary placement area for excavated material, and heavy equipment work area. Vertical disturbance for pipeline installation will generally be up to 6 feet.

In areas where Jack and Bore Construction is to take place for pipeline installation, lateral disturbance around bore pit is estimated at approximately 50 feet around pit area. No vertical disturbance is anticipated. Lateral disturbance for pit area is estimated at 20 feet in length and 20-30 feet in width (see AFC Volume 3–Figure 5-2 for Jack and Bore Construction detail). Maximum vertical disturbance for pit depth is estimated at 25 feet.

Lateral ground disturbance for gas pipeline staging areas would include the entire proposed 200 foot by 200 foot area. No vertical disturbance is anticipated.

Lateral ground disturbance during the construction of the transmission line will be concentrated at the structure locations where an area approximately 100 feet square will be disturbed to install foundations, assemble and erect structures. Minimal ground disturbance will occur by the passage of vehicles along the right of way to string conductors between the towers. The natural contours of the ground will not be modified and will be restored at the structure locations after construction is completed. Vertical disturbance will be limited to that caused by the excavation of the foundations for the structures. Foundations will be approximately 20 feet in depth and five feet in diameter.

Lateral disturbance for new main plant facility wells is estimated at approximately 30 feet around wells.



KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
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RESPONSES TO DATA REQUESTS 1-89

Technical Area: Cultural Resources

Data Request 16:

To facilitate the completion of the cultural resources inventory for the proposed project:

- a) Please describe and provide maps (scale of 1:24,000) for each portion of the required survey area, including construction staging areas and linear facility corridors, that the applicant has been unable to survey at the surface.
- b) Please provide a schedule for the completion of the surface survey of the required survey area.
- c) Please provide a plan for surveying the private property in the required survey area to which the applicant has had no access.

Response:

Cultural resource consultant to KRCD, Pacific Legacy, did conduct a survey for cultural resources within the entire area that the CEC April 2007 *Rules of Practice and Procedure & Power Plant Site Certification Regulations* (Rules of Practice) prescribe for a proposed power plant and associated linear facilities. Only a few areas were not directly accessed for surveys due to the fact that access to these properties had not yet been granted. As discussed in AFC Section 8.14, Cultural Resources, parcels that were unable to be directly accessed were either viewed from adjacent or nearby parcels where access had been obtained or were viewed from the public right-of-way.

The original figures 2-7 in the Archaeological Survey Report depict the Project Area, Survey Coverage and Resource Locations. This report was previously submitted to the CEC under confidential cover. Unsurveyed project areas (highlighted) were clearly distinguished from the surveyed project areas (highlighted with cross-hatching). Unsurveyed areas include parcels along the proposed and alternate transmission line routes and staging areas for the natural gas pipeline route located on private property.

In October 2007, Dorothy Torres of the CEC requested that the plotted resource locations be amended to distinguish between those resources which were newly identified and recorded, those that were previously recorded and updated, and those which were noted but beyond the project right of way (ROW). These changes were made on a new set of maps and resources were color coded for easy distinction. These new maps, were submitted, under confidential cover, as part of KRCD CPP Supplement A, dated November 2007, and were to be inserted at the beginning of



KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
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Archaeological Survey Report Appendix C–Primary Records and Updates for Identified Resources. Apparently they were inadvertently inserted to replace by Figures 2-7 in the Archaeological Survey Report which should have remained the same. An additional copy of Figures 2-7 from the March 2007 Archaeological Survey Report have been submitted under confidential cover.

The unsurveyed areas in the KRCD CPP project area include approximately 2.8 miles of the transmission line routes which are primarily in agricultural lands. The only remaining unsurveyed portions of the project area are the 20-acre construction staging area located adjacent to the project site and four small (2-5 acre) parcels along the natural gas pipeline route which will be used as staging areas during construction. These areas are comprised of open fields which are adjacent to residential ranch complexes and which were formerly used for agricultural pursuits. As previously stated, parcels that were unable to be directly accessed were either viewed from adjacent or nearby parcels where access had been obtained or were viewed from the public right-of-way.

Areas not included in the original survey due to access will be surveyed for cultural resources prior to project construction.



KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89

Technical Area: Cultural Resources

Data Request 17:

With regard more specifically to the completion of the cultural resource inventory for the proposed natural gas lateral:

- a) Please provide the widths of the rights-of-way (ROWs) along the roadways where the construction of the new natural gas pipeline is proposed.
- b) Please also describe the variations in the general physical and biological character of each such ROW.
- c) Explain how the results of the applicant's ROW pedestrian surveys are reliable indices of the archaeological deposits that may be beneath the roadways.
- d) Discuss the appropriateness of subsurface testing of the ROWs for any such deposits.

Response:

The surveyed ROW along the proposed natural gas pipeline varied in width (averaging between 50 and 100 feet wide) but included all areas from the edge of pavement of the existing roadway to the property fence lines on either sides of the roadways. There were slight variations in the ROW setting along the route but it typically consisted of a narrow strip between the edge of pavement of the existing roadway and the fence lines of private properties. The private properties consist of residences and ranches with associated agricultural lands primarily planted in raisin vineyards or tree nut crops.

Archaeological crews inspected the banks of irrigation ditches and all areas of exposed mineral soils along the ROW for the presence of cultural constituents indicative of prehistoric and historic archaeological sites. Visibility varied within the corridor depending on the width of the roadway and was limited near residences due to concrete and asphalt driveway entrances and various developments. Approximately 50% of the ROW contained mineral soils which could be inspected for cultural constituents. The remaining 50% comprised the asphalt roadways, concrete and gravel entrances to residences and ranch complexes and existing infrastructures (concrete lined irrigation canals). A small amount of the visible soil appeared to be imported fill material, and these fill soils were mostly adjacent to driveway entrances, roadways and railroad grades. Most of the inspected surface soils were adjacent to agricultural parcels planted in raisin and tree nut crops, which appeared to have minimal impacts related to the agricultural pursuits.

The project area is very flat and is represented by alluvial soil deposits. As such, there was limited areas of previous cutting and filling of soils and those that were present were usually



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associated with cultural features like railroad grades and the excavation of soils for existing irrigation features. Rodent burrows within the surface mineral soils allowed for an occasional check of subsurface deposits but these were limited within the ROW.

Notes were made of adjacent residences and properties beyond the ROW which might warrant cultural consideration if there are changes in the existing ROW. Note that the surveyed project area ROW is wider than the Area of Direct Impact (ADI) for installation and maintenance of the proposed pipeline so that contemporary, actively used agricultural features or similar areas of concern (i.e. foundations, railroad grades, or other features) will be avoided. The exact route of the gas pipeline has yet to be engineered but will most likely occur adjacent to the existing roadways where buried infrastructures are likely already present (i.e., sewer lines, water lines, fiber optic cables).

Subsurface testing of the ROW would not be appropriate as it would necessitate cutting concrete along the existing roadways and driveway entrances for those areas which had limited or no surface mineral soil. There is always a remote chance that undetected cultural resources are buried within a project area. Construction crews will have cultural resources awareness training prior to project development and an archaeologist will be on call should an unanticipated discovery occur as a result of project construction. In addition, initial subsurface construction work in sensitive archaeological areas (such as those in proximity to the Kings River and other stream crossings) will be monitored by a qualified archaeologist to ensure that potentially buried resources will be protected.



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Technical Area: Cultural Resources

Data Request 18:

Please provide a confidential, composite inventory, on one map set and in tabular form, of the resources that Pacific Legacy and JRP have found, to date, in the required survey area. Please provide the map set as a series of unique sheets at a scale of 1:24,000, preferably using the same base maps as those requested above for areas that have yet to be surveyed. Please also develop the table to clearly identify those instances where both surveys found the same resource, but gave it different field designations.

The requested table should further include:

- a. Separate columns that display Pacific Legacy's and JRP's temporary field designations for each resource.
- b. Any permanent designations that any of the resources may now carry.
- c. Recommendations on the resources' California Register of Historical Resources (CRHR) eligibility.
- d. Each resource's distance (in meters) to the nearest project component.

Response:

There is an overlap of 10 resources which were identified by both Pacific Legacy and JRP Historical Consultants. These are referenced in the following table by Pacific Legacy field designation (PLI) and JRP Map Reference Number (JRP). Of these, only four resources lie within both the Pacific Legacy and JRP survey areas (i.e. PLI-1, PLI-2/8/13, PLI-9 and PLI-10). These four resources were recorded by both teams and were evaluated for historical significance by JRP. The remaining six resources (PLI-3, PLI-5, PLI-6, PLI-7, PLI-18 and PLI-19) were noted by Pacific Legacy but they are located beyond the archaeological survey area. However, these resources were recorded and evaluated for historical significance by JRP as they were within the historic resources survey boundary of the plant site and overhead transmission lines.



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| Cultural Resources Identified by both JRP and Pacific Legacy Surveys | | | | |
|--|---|---|-------------------|----------------------------------|
| JRP Map Reference Number | Pacific Legacy Field Designation | Description | Year Built | Eligible for CRHR or NRHP |
| JRP 1 | PLI -1 | Ranch complex at 9664 S. Bethel Ave. at proposed plant site | 1935 | No |
| JRP 47 | PLI -19 | Residence at 9825 S. Bethel Ave. | 1910 | No |
| JRP 48 | PLI-18 | Buildings at 9691 S. Bethel Ave. | ca.1900 & 1955 | No |
| JRP 50 | PLI-6 | Residence & barns at 12036 E. Manning Ave. | ca. 1920s & 1951 | No |
| JRP 54 | PLI-5 | Jensen Residence at 8262 S. Bethel Ave. | 1903 | Yes |
| JRP 55 | PLI-7 | Ranch complex at 8471 S. Bethel Ave. | 1920 | No |
| JRP 56 | PLI-3 | Barn & residence at 8514 S. Indianola Ave. | 1937 | No |
| JRP 90 | PLI-2, -8 & -13 | Selma Branch of the Centerville and Kingsburg Canal | 1878 | No |
| JRP 91 | PLI-9 | Walnut Ditch | ca. 1891 | No |
| JRP 92 | PLI-10 | Kirby Ditch | 1882 | No |
| Acronyms: CRHR – California Register of Historic Resources NRHP – National Register of Historic Places | | | | |

Eighty four additional historic structures and buildings were identified and evaluated by the JRP crew as being within the historic resources survey boundary of the plant site and overhead transmission lines. These were beyond the survey corridors inspected by the Pacific Legacy archaeological survey. Results of these evaluations were included in the “Draft Historical Resources Inventory and Evaluation Report for the Kings River Conservation District Community Power Plant Project” (HRIER), dated July 2007, which was previously submitted to the CEC.

Pacific Legacy identified and recorded 18 other resources (PLI-11, PLI-14, PLI-15/50, PLI-20, PLI-30, PLI-32, PLI-33, PLI-37, PLI-55, PLI-63, PLI-67, PLI-70, PLI-77, PLI-81, PLI-85, PLI-88, P-54-2171, and P-54-2172). These consist of a former railroad grade, 16 irrigation canals, and a concrete foundation remnant. These were located beyond the view shed and survey



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corridor of the JRP crew. Also, 59 additional resources were noted by Pacific Legacy as being just beyond their survey corridor and which were also beyond the view shed of the plant site and overhead transmission lines, and as such were not inventoried or evaluated by the JRP team. Results of these evaluations were included in the “Archaeological Survey Report” dated March 2007, which was previously submitted to the CEC under confidential cover.

Figure showing all identified resources by both Pacific Legacy and JRP were submitted to the CEC under confidential cover.

Exact distances to the resources evaluated by Pacific Legacy have not been provided as the distances would vary considerably until the exact pipeline locations are engineered. The distances for the four historic resources evaluated by JRP are included in the table below. The distance provided is from the evaluated structure to either the edge of the proposed transmission line ROW or to the project site boundary.

| JRP Map Reference Number | Parcel Number (APN) | Address / Notes | Year Built | Distance to Nearest Project | Eligible for CRHR or NRHP |
|---------------------------------|----------------------------|--|-------------------|------------------------------------|----------------------------------|
| 2 | 358-031-87 | 9280 S. Bethel Ave. (Unger/Avery Residence) | ca. 1903 | 500 meters | Yes |
| 54 | 353-061-07 | 8262 S. Bethel Ave. (Jensen Residence) | 1903 | 600 meters | Yes |
| 70 | 345-031-20 | 8601 E. South Ave. (Jamieson Residence) | 1883 | 630 meters | Yes |
| 80 | 353-050-29S | 8603 S. McCall Ave. (Martin Residence) | 1894 | 150 meters | Yes |

A comprehensive table of all identified cultural and historic resources is included as Attachment Cul-1.



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ATTACHMENT CUL-1

Inventory of Identified Resources



**Comprehensive JRP and Pacific Legacy Historical Resources Identified
and/or Evaluated for the KRCD Community Power Plant Project (n = 171)**

Arranged in order by JRP Map Reference Numbers (all 94 of which were
evaluated) and Pacific Legacy Field Designation & Primary Record Numbers (22
of which were recorded [in APE] & 65 noted [beyond APE], except for the 10
resources which overlap with the JRP numbers)

***two built dates denote multiple residences on the property**

****multiple field designations denote various segments of same linear resource**

| JRP Map Reference Number | Pacific Legacy Field Designation** or Primary Record Number | Parcel Number (APN) | Address / Notes | Year Built* | Eligible for CRHR or NRHP |
|---|--|--------------------------------|--|--------------------------|--|
| JRP-1 | PLI-1 | 358-031-33 | 9664 S. Bethel Ave. | 1935 | No |
| JRP-2 | - | 358-031-87 | 9280 S. Bethel Ave. (Unger/Avery Residence) | ca. 1903 | Yes |
| JRP-3 | - | 358-031-35 | 12270 E. Dinuba Ave. | 1922 | No |
| JRP-4 | - | 358-031-36 | 12310 E. Dinuba Ave. | 1910 | No |
| JRP-5 | - | 358-031-37 | 12322 E. Dinuba Ave. | ca. 1960 | No |
| JRP-6 | - | 358-031-38 | 12328 E. Dinuba Ave. | 1950 | No |
| JRP-7 | - | 358-260-05S | 9533 S. Academy Ave. | 1950 | No |
| JRP-8 | - | 358-260-23S | 9523 / 9525 / 9527 S. Academy Ave. | 1952 / ca. 1960 | No |
| JRP-9 | - | 358-260-02S | 9521 S. Academy Ave. | ca. 1960s | No |
| JRP-10 | - | 358-260-03S | 9527 S. Academy Ave. | 1950 (moved 1990) | No |
| JRP-11 | - | 358-260-25S | 9391 S. Academy Ave. | 1938 (moved 1960s) | No |
| JRP-12 | - | 358-260-12S | 9503 S. Academy Ave. | 1956 | No |
| JRP-13 | - | 358-260-14S | 9499 S. Academy Ave. | 1949 | No |
| JRP-14 | - | 358-260-19S | 9477 S. Academy Ave. | 1949 | No |

| JRP Map Reference Number | Pacific Legacy Field Designation** or Primary Record Number | Parcel Number (APN) | Address / Notes | Year Built* | Eligible for CRHR or NRHP |
|--------------------------|---|---------------------|------------------------|--------------------------|---------------------------|
| JRP-15 | - | 358-260-17S | 9463 S. Academy Ave. | 1948 | No |
| JRP-16 | - | 358-260-20S | 9495 S. Academy Ave. | 1948 | No |
| JRP-17 | - | 358-260-15S | 9501 S. Academy Ave. | 1950 | No |
| JRP-18 | - | 358-260-07S | 9595 S. Academy Ave. | ca. 1950 | No |
| JRP-19 | - | 358-031-85ST | 12716 E. Dinuba Ave. | ca. 1940s | No |
| JRP-20 | - | 358-031-43 | 12592 E. Dinuba Ave. | 1961 | No |
| JRP-21 | - | 358-031-63 | 12376 E. Dinuba Ave. | 1946 | No |
| JRP-22 | - | 358-270-41 | 12735 E. Dinuba Ave. | 1928 (moved ca.1966) | No |
| JRP-23 | - | 358-270-04 | 12365 E. Dinuba Ave. | 1924 | No |
| JRP-24 | - | 358-270-03 | 12323 E. Dinuba Ave. | 1940 | No |
| JRP-25 | - | 358-270-14 | 12347 E. Dinuba Ave. | 1952 | No |
| JRP-26 | - | 358-270-15 | 12247 E. Dinuba Ave. | ca. 1940 (moved 1972) | No |
| JRP-27 | - | 358-270-16 | 12239 E. Dinuba Ave. | 1950 | No |
| JRP-28 | - | 358-270-18 | 12245 E. Dinuba Ave. | 1952 | No |
| JRP-29 | - | 358-270-17 | 12241 E. Dinuba Ave. | 1950 | No |
| JRP-30 | - | 358-270-20 | 12243 E. Dinuba Ave. | 1950 | No |
| JRP-31 | - | 358-270-32S | 12198 E. Huntsman Ave. | 1960 (moved 1973) | No |
| JRP-32 | - | 358-270-31S | 12068 E. Huntsman Ave. | 1954 | No |
| JRP-33 | - | 358-270-26 | 10426 S. Bethel Ave. | 1955 | No |

| JRP Map Reference Number | Pacific Legacy Field Designation** or Primary Record Number | Parcel Number (APN) | Address / Notes | Year Built* | Eligible for CRHR or NRHP |
|--------------------------|---|---------------------------|---|------------------|---------------------------|
| JRP-34 | - | 358-270-48 | 10338 S. Bethel Ave. | ca. 1930s / 1950 | No |
| JRP-35 | - | 358-270-30 | 10158 S. Bethel Ave. | 1951 | No |
| JRP-36 | - | 358-050-93 | 10373 & 10371 S. Bethel Ave. | ca. 1920 / 1926 | No |
| JRP-37 | - | 358-270-34 | 12283 E. Dinuba Ave. | 1939 | No |
| JRP-38 | - | 358-270-33 | 12265 E. Dinuba Ave. | 1962 | No |
| JRP-39 | - | 358-050-84 | 10309 S. Bethel Ave. | 1960 | No |
| JRP-40 | - | 358-050-04 | 10135 S. Bethel Ave. | ca. 1920 | No |
| JRP-41 | - | 358-031-18 | 11736 E. Dinuba Ave. | 1950 | No |
| JRP-42 | - | 358-031-17; 358-031-70 | 11525 E. Dinuba Ave. (Indianola Elementary School) | 1955 / 1961 | No |
| JRP-43 | - | 358-031-05 | 11410 E. Dinuba Ave. | ca. 1916 | No |
| JRP-44 | - | 358-031-03 | 11292 E. Dinuba Ave. | 1950 | No |
| JRP-45 | - | 358-031-99 | 11700 E. Dinuba Ave. | ca. 1920 | No |
| JRP-46 | - | 358-031-07 | 11250 E. Dinuba Ave. | ca. 1955 | No |
| JRP-47 | PLI-19 | 358-031-20 | 9825 S. Bethel Ave. | 1910 | No |
| JRP-48 | PLI-18 | 358-031-21 | 9691 S. Bethel Ave. | ca. 1900 / 1955 | No |
| JRP-49 | - | 358-031-73 | 11949 E. Manning Ave. | 1942 | No |
| JRP-50 | PLI-6 | 353-061-53 | 12036 E. Manning Ave. | ca. 1920s / 1951 | No |
| JRP-51 | - | 353-061-40 | 8816 S. Bethel Ave. | 1924 / ca. 1955 | No |
| JRP-52 | - | 353-061-39 | 8752 S. Bethel Ave. | 1925 | No |
| JRP-53 | - | 353-061-38 | 8598 S. Bethel Ave. | 1920 | No |

| JRP Map Reference Number | Pacific Legacy Field Designation** or Primary Record Number | Parcel Number (APN) | Address / Notes | Year Built* | Eligible for CRHR or NRHP |
|--------------------------|---|---------------------------|--|-------------------------|---------------------------|
| JRP-54 | PLI-5 | 353-061-07 | 8262 S. Bethel Ave. (Jensen Residence) | 1903 | Yes |
| JRP-55 | PLI-7 | 353-061-65 | 8471 S. Bethel Ave. | 1920 | No |
| JRP-56 | PLI-3 | 353-061-28 | 8514 S. Indianola Ave. | 1937 | No |
| JRP-57 | - | 353-061-48 | 8355 S. Indianola Ave. | 1930 | No |
| JRP-58 | - | 353-061-15 | 11381 E. South Ave. | 1910 | No |
| JRP-59 | - | 353-061-16 | 11315 E. South Ave. | 1912 / ca. 1950 | No |
| JRP-60 | - | 353-061-21 | 8366 S. Del Rey Ave. | ca. 1930 | No |
| JRP-61 | - | 353-061-19 | 11137 E. South Ave. | 1925 | No |
| JRP-62 | - | 353-070-02 | 8209 S. Del Rey Ave | 1950 (moved 1972) | No |
| JRP-63 | - | 353-070-12 | 10841 E. South Ave. | 1930 | No |
| JRP-64 | - | 353-070-20 | 10591 E. South Ave. | 1940 | No |
| JRP-65 | - | 353-050-04 | 10129 E. South Ave. | 1951 / ca. 1950s | No |
| JRP-66 | - | 353-050-42 | 8137 S. McCall Ave. | 1945 | No |
| JRP-67 | - | 353-050-02 | 9621 E. South Ave. | 1910 / 1950 | No |
| JRP-68 | - | 353-050-01; 353-050-41 | 9337 E. South Ave. | 1920 | No |
| JRP-69 | - | 345-031-16 | 8955 E. South Ave. | 1934 | No |
| JRP-70 | - | 345-031-20 | 8601 E. South Ave. (Jamieson Residence) | 1883 | Yes |
| JRP-71 | - | 345-031-22S | 8447 S. Leonard Ave. | 1955 | No |
| JRP-72 | - | 345-190-03 | 8656 S. De Wolf Ave. | 1962 | No |

| JRP Map Reference Number | Pacific Legacy Field Designation** or Primary Record Number | Parcel Number (APN) | Address / Notes | Year Built* | Eligible for CRHR or NRHP |
|--------------------------|---|---------------------|---|------------------------|---------------------------|
| JRP-73 | - | 345-190-05 | 8690 S. De Wolf Ave. | 1940 | No |
| JRP-74 | - | 345-190-06S | 8728 S. De Wolf Ave. | 1960 | No |
| JRP-75 | - | 345-190-04 | 8656 S. De Wolf Ave. | 1905 | No |
| JRP-76 | - | 345-190-21U | S. Leonard Ave. (McCall Substation) | 1952 | No |
| JRP-77 | - | 345-031-06 | 8464 S. Leonard Ave. | 1957 | No |
| JRP-78 | - | 353-050-69 | 9240 E. Manning Ave. | 1926 / ca. 1950s | No |
| JRP-79 | - | 353-050-28 | 8473 S. McCall Ave. | 1925 | No |
| JRP-80 | - | 353-050-29S | 8603 S. McCall Ave. (Martin Residence) | 1894 | Yes |
| JRP-81 | - | 353-050-25 | 8558 S. McCall Ave. | ca. 1920 / ca. 1950 | No |
| JRP-82 | - | 353-050-15 | 10514 E. Parlier Ave. | 1940 / ca. 1955 | No |
| JRP-83 | - | 353-050-14 | 10534 E. Parlier Ave. | 1945 | No |
| JRP-84 | - | 353-050-46S | 10574 E. Parlier Ave. | 1962 | No |
| JRP-85 | - | 353-050-11 | 10650 - 10656 E. Parlier Ave. | ca. 1910 | No |
| JRP-86 | - | 353-050-61 | 10806 E. Parlier Ave. | 1910 | No |
| JRP-87 | - | 353-050-18 | 10928 E. Manning Ave. | ca. 1910 | No |
| JRP-88 | - | 353-061-26S | 11310 E. Manning Ave. | 1939 | No |
| JRP-89 | - | 353-061-51 | 8844 S. Indianola Ave. | ca. 1930s | No |
| JRP-90 | PLI-2, PLI-8 & PLI-13 | n/a | Selma Branch, Centerville and Kingsburg Canal | 1878 | No |
| JRP-91 | PLI-9 | n/a | Walnut Ditch | ca. 1891 | No |
| JRP-92 | PLI-10 | n/a | Kirby Ditch | 1882 | No |

| JRP Map Reference Number | Pacific Legacy Field Designation** or Primary Record Number | Parcel Number (APN) | Address / Notes | Year Built* | Eligible for CRHR or NRHP |
|--------------------------|---|---------------------|---|-------------|----------------------------|
| JRP-93 | - | n/a | Fowler Switch Canal | 1883 | No |
| JRP-94 | - | n/a | Kirby Canal | 1882 | No |
| - | PLI-11 | n/a | Former railroad grade of the Atchison, Topeka and Santa Fe Railroad | Unknown | Recorded Not Yet Evaluated |
| - | PLI-14 | n/a | Harp Ditch | Unknown | Recorded Not Yet Evaluated |
| - | PLI-15 & PLI-50 | n/a | Cole Slough | Unknown | Recorded Not Yet Evaluated |
| - | PLI-20 | n/a | Colony Ditch | Unknown | Recorded Not Yet Evaluated |
| - | PLI-30 | n/a | Ward Drainage Canal | Unknown | Recorded Not Yet Evaluated |
| - | PLI-32 | n/a | Concrete foundation remnant | Unknown | Recorded Not Evaluated |
| - | PLI-33 | n/a | Kingsburg Branch Canal | Unknown | Recorded Not Yet Evaluated |
| - | PLI-37 | n/a | Santa Fe Canal | Unknown | Recorded Not Yet Evaluated |
| - | PLI-55 | n/a | Irrigation canal | Unknown | Recorded Not Yet Evaluated |
| - | PLI-63 | n/a | Caesar Canal | Unknown | Recorded Not Yet Evaluated |
| - | PLI-67 | n/a | McClanahan Ditch | Unknown | Recorded Not Yet Evaluated |
| - | PLI-70 | n/a | Irrigation canal | Unknown | Recorded Not Yet Evaluated |
| - | PLI-77 | n/a | Irrigation canal | Unknown | Recorded Not Yet Evaluated |
| - | PLI-81 | n/a | Irrigation canal | Unknown | Recorded Not Yet Evaluated |

| JRP Map Reference Number | Pacific Legacy Field Designation** or Primary Record Number | Parcel Number (APN) | Address / Notes | Year Built* | Eligible for CRHR or NRHP |
|--------------------------|---|---------------------|---|-------------|----------------------------------|
| - | PLI-85 | n/a | Mill Creek Ditch | Unknown | Recorded Not Yet Evaluated |
| - | PLI-88 | n/a | North Fork Irrigation Canal | Unknown | Recorded Not Yet Evaluated |
| - | Primary Number P-54-002171 | n/a | Traver Canal – previously recorded | Unknown | Record Updated Not Yet Evaluated |
| - | Primary Number P-54-002172 | n/a | Banks Ditch – previously recorded | Unknown | Record Updated Not Yet Evaluated |
| - | PLI-4 | n/a | Building remnant (tenant farmhouse) at northeast corner of parcel #25; under existing high voltage line | Unknown | Noted Only |
| - | PLI-12 | n/a | Ranch complex at 12625 E. Lincoln Ave. | Unknown | Noted Only |
| - | PLI-16 | n/a | Residence a 13704 E. Lincoln Ave. | Unknown | Noted Only |
| - | PLI-17 | n/a | Residence; possible address at 13109 Adams Ave. | Unknown | Noted Only |
| - | PLI-21 | n/a | Residence at 11122 Bethel Ave. | Unknown | Noted Only |
| - | PLI-22 | n/a | Residence at 11561 Bethel Ave. | Unknown | Noted Only |
| - | PLI-23 | n/a | Residence at 11654 Bethel Ave. | Unknown | Noted Only |
| - | PLI-24 | n/a | Residence at 11778 Bethel Ave. | Unknown | Noted Only |
| - | PLI-25 | n/a | Residence at 12370 Bethel Ave. | Unknown | Noted Only |
| - | PLI-26 | n/a | Residence at 12548 Bethel Ave. | Unknown | Noted Only |
| - | PLI-27 | n/a | Residence at 12774 Bethel Ave. | Unknown | Noted Only |
| - | PLI-28 | n/a | Residence at 12408 Mtn. View Ave. | Unknown | Noted Only |
| - | PLI-29 | n/a | Residence at 12540 Mtn. View Ave. | Unknown | Noted Only |
| - | PLI-31 | n/a | Residence at 12709 Mtn. View Ave. | Unknown | Noted Only |

| JRP Map Reference Number | Pacific Legacy Field Designation** or Primary Record Number | Parcel Number (APN) | Address / Notes | Year Built* | Eligible for CRHR or NRHP |
|--------------------------|---|---------------------|---|-------------|---------------------------|
| - | PLI-34 | n/a | Residence at 12950 Mtn. View Ave. | Unknown | Noted Only |
| - | PLI-35 | n/a | Residence; possible address at 12940 Mtn. View Ave. | Unknown | Noted Only |
| - | PLI-36 | n/a | Residence at 12906 Mtn. View Ave. | Unknown | Noted Only |
| - | PLI-38 | n/a | Residence at 14143 Mtn. View Ave. | Unknown | Noted Only |
| - | PLI-39 | n/a | Residence at 14282 Mtn. View Ave. | Unknown | Noted Only |
| - | PLI-40 | n/a | Residence at 14417 Mtn. View Ave. | Unknown | Noted Only |
| - | PLI-41 | n/a | Residence at 14500 E. Mtn. View Ave. | Unknown | Noted Only |
| - | PLI-42 | n/a | Residence at 14601 E. Mtn. View Ave. | Unknown | Noted Only |
| - | PLI-43 | n/a | Residence at 14709 E. Mtn. View Ave. | Unknown | Noted Only |
| - | PLI-44 | n/a | Residence; possible address at 14950 E. Mtn. View Ave. | Unknown | Noted Only |
| - | PLI-45 | n/a | Residence at NE corner of Mtn. View Ave. & Zediker Ave. | Unknown | Noted Only |
| - | PLI-46 | n/a | Residence at 15270 E. Mtn. View Ave. | Unknown | Noted Only |
| - | PLI-47 | n/a | Residence at 15277 E. Mtn. View Ave. | Unknown | Noted Only |
| - | PLI-48 | n/a | Residence at 15468 E. Mtn. View Ave. | Unknown | Noted Only |
| - | PLI-49 | n/a | Residence at 15926 E. Mtn. View Ave. | Unknown | Noted Only |
| - | PLI-51 | n/a | Residence at 41342 Road 32 | Unknown | Noted Only |
| - | PLI-52 | n/a | Residence at corner of Smith Ave. and Caruthers Ave; possible address 41179 Road 32 | Unknown | Noted Only |
| - | PLI-53 | n/a | Residence at 41168 Road 32 | Unknown | Noted Only |
| - | PLI-54 | n/a | Residence and barn at 40980 Road 32 | Unknown | Noted Only |

| JRP Map Reference Number | Pacific Legacy Field Designation** or Primary Record Number | Parcel Number (APN) | Address / Notes | Year Built* | Eligible for CRHR or NRHP |
|--------------------------|---|---------------------|---|-------------|---------------------------|
| - | PLI-56 | n/a | Residence at 3747 Avenue 408 | Unknown | Noted Only |
| - | PLI-57 | n/a | Residence at 3872 Avenue 408 | Unknown | Noted Only |
| - | PLI-58 | n/a | Residence at 3888 Avenue 408 | Unknown | Noted Only |
| - | PLI-59 | n/a | Residence at 40649 Road 40 | Unknown | Noted Only |
| - | PLI-60 | n/a | Tank House and barn at 40484 Road 40 | Unknown | Noted Only |
| - | PLI-61 | n/a | Residence at 40174 Road 40 | Unknown | Noted Only |
| - | PLI-62 | n/a | Residence at 40045 Road 40 | Unknown | Noted Only |
| - | PLI-64 | n/a | Residence at 39652 Road 40 | Unknown | Noted Only |
| - | PLI-65 | n/a | Residence at 39461 Road 40 | Unknown | Noted Only |
| - | PLI-66 | n/a | Residence at 39462 Road 40 | Unknown | Noted Only |
| - | PLI-68 | n/a | Residence at 38977 Road 40 | Unknown | Noted Only |
| - | PLI-69 | n/a | Residence at 38148 Road 40 | Unknown | Noted Only |
| - | PLI-71 | n/a | Residence at 37428 Road 40 | Unknown | Noted Only |
| - | PLI-72 | n/a | Residence on west side of Road 40 south of PLI-71 (no address) | Unknown | Noted Only |
| - | PLI-73 | n/a | Residence on Road 40 (no address) | Unknown | Noted Only |
| - | PLI-74 | n/a | Existing Southern Pacific Railroad | Unknown | Noted Only |
| - | PLI-75 | n/a | Remains of cinderblock building on east side of Road 36, north of Merritt Dr. | Unknown | Noted Only |
| - | PLI-76 | n/a | Barn on west side of Road 60 | Unknown | Noted Only |
| - | PLI-78 | n/a | Concrete bridge on Road 60 at Cross Creek | Unknown | Noted Only |
| - | PLI-79 | n/a | Concrete bridge on Road 60 at Cross Creek | Unknown | Noted Only |

| JRP Map Reference Number | Pacific Legacy Field Designation** or Primary Record Number | Parcel Number (APN) | Address / Notes | Year Built* | Eligible for CRHR or NRHP |
|--------------------------|---|---------------------|--|-------------|---------------------------|
| - | PLI-80 | n/a | Residence at 32399 Road 60 | Unknown | Noted Only |
| - | PLI-82 | n/a | Existing Southern Pacific Railroad | Unknown | Noted Only |
| - | PLI-83 | n/a | Residence at NW corner of Road 60 and Avenue 308 | Unknown | Noted Only |
| - | PLI-84 | n/a | Residence at 6257 Avenue 308 | Unknown | Noted Only |
| - | PLI-86 | n/a | Residence at 30092 Road 68 | Unknown | Noted Only |
| - | PLI-87 | n/a | Residence at 29797 Road 68 | Unknown | Noted Only |

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Data Request 19:

Please discuss how the “various utility routes will avoid impacting” (p. 20, section 8.14 of the AFC) each of the above 21 resources, and provide that information in written and tabular forms.

Response:

Other than the Barr Ranch Site, (PLI-1/JRP-1), the remaining 21 resources identified and recorded by Pacific Legacy consist of a concrete foundation remnant, an abandoned railroad grade, and 19 irrigation features (two of which were previously recorded and updated). Three of these irrigation features (the Selma Branch of the Centerville & Kingsburg Canal, the Walnut Ditch and the Kirby Ditch) are located within the view shed of the power plant and/or proposed transmission line route. These were evaluated by JRP as being not eligible for listing on the California Register of Historic Resources (CRHR) or the National Register of Historic Places (NRHP). The remaining resources are located within the ROW corridors for the proposed water and gas pipeline routes. The actual water and gas pipelines will be installed within the ROW adjacent to these resources. When the water and gas pipelines are parallel to existing features, they will be installed by boring underground and constructed so that the functioning irrigation canals will not be disturbed or impacted (as is likely the case with existing infrastructure along the current roadways). When the water and gas pipelines are perpendicular to the existing linear features, the resources will be evaluated prior to project construction. If any of these perpendicular linear resources are determined to be eligible for listing on the CHHR or NRHP, the pipeline will either be realigned or the pipeline will be constructed by boring to avoid impacting the resource. Thus, resource avoidance will occur through a combination of directional boring under linear feature crossings and/or realignment of pipeline routes paralleling linear resources. The following table provide a tabular listing of the recorded and updated resources identified by Pacific Legacy.



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Summary of Recorded and Updated Resources in the KRCD-CPP Project Area by Pacific Legacy

| Resource # | Description | Comments |
|------------------------|---|--|
| PLI 1 | Ranch complex at 9664 Bethel Ave | Evaluated by JRP (JRP 1) not eligible |
| PLI 2 / PLI 8 / PLI 13 | Centerville and Kingsburg (C & K) canal (same canal as PLI 8 and PLI 13) | Evaluated by JRP (JRP 90) not eligible |
| PLI 9 | Walnut Ditch, concrete-lined irrigation canal | Evaluated by JRP (JRP 91) not eligible |
| PLI 10 | E. Kirby Ditch, concrete-lined irrigation canal | Evaluated by JRP (JRP 92) not eligible |
| PLI 11 | Former railroad grade of the Atchison, Topeka and Santa Fe Railroad | Will be evaluated prior to construction. If eligible for the CRHR or NRHP, will be avoided by boring or realignment. |
| PLI 14 | Harp Ditch and concrete culvert | Will be evaluated prior to construction. If eligible for the CRHR or NRHP, will be avoided by boring or realignment. |
| PLI 15 /PLI 50 | Cole Slough irrigation canal | Will be evaluated prior to construction. If eligible for the CRHR or NRHP, will be avoided by boring or realignment. |
| PLI 20 | Colony Ditch | Will be evaluated prior to construction. If eligible for the CRHR or NRHP, will be avoided by boring or realignment. |
| PLI 30 | Ward Drainage Canal with corrugated metal culvert | Will be evaluated prior to construction. If eligible for the CRHR or NRHP, will be avoided by boring or realignment. |
| PLI 32 | Concrete foundation (9.5' (N/S) by 15.7' (E/W) | Will be avoided by realignment |
| PLI 33 | Kingsburg Branch Canal with concrete culvert/bridge crossing at Mtn. View Ave | Will be evaluated prior to construction. If eligible for the CRHR or NRHP, will be avoided by boring or realignment. |
| PLI 37 | Santa Fe Canal | Will be evaluated prior to construction. If eligible for the CRHR or NRHP, will be avoided by boring or realignment. |
| PLI 55 | Irrigation canal | Will be evaluated prior to construction. If eligible for the CRHR or NRHP, will be avoided by boring or realignment. |
| PLI 63 | Caesar Canal with culvert | Will be evaluated prior to construction. If eligible for the CRHR or NRHP, will be avoided by boring or realignment. |
| PLI 67 | McClanahan Ditch | Will be evaluated prior to construction. If eligible for the CRHR or NRHP, will be avoided by boring or realignment. |
| PLI 70 | Irrigation canal, concrete-lined with concrete culvert | Will be evaluated prior to construction. If eligible for the CRHR or NRHP, will be avoided by boring or realignment. |
| PLI 77 | Irrigation canal with a concrete bridge at RD 60, empties into a small pond west of RD 60 | Will be evaluated prior to construction. If eligible for the CRHR or NRHP, will be avoided by boring or realignment. |
| PLI 81 | Irrigation canal (13' wide, 4' deep) | Will be evaluated prior to construction. If eligible for the CRHR or NRHP, will be avoided by boring or realignment. |
| PLI 85 | Mill Creek Ditch (28' wide, 5-6' deep) and concrete culvert (29.5' long by 7.5' wide) | Will be evaluated prior to construction. If eligible for the CRHR or NRHP, will be avoided by boring or realignment. |
| PLI 88 | North Fork irrigation canal (16' wide, 5' deep) and culvert (3' diameter) | Will be evaluated prior to construction. If eligible for the CRHR or NRHP, will be avoided by boring or realignment. |
| P-54-002171 | Traver Canal | Will be evaluated prior to construction. If eligible for the CRHR or NRHP, will be avoided by boring or realignment. |
| P-54-002172 | Banks Ditch with recent concrete culvert under Hwy 99. | Will be evaluated prior to construction. If eligible for the CRHR or NRHP, will be avoided by boring or realignment. |



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Data Request 20:

To facilitate a more comprehensive assessment of the proposed project's potential to impact historical resources:

- a. Please provide a list of the potential historical resources found as a result of prior and recent surveys that are in sight of the main plant facility or the new transmission line.
- b. Please have a person who meets the Secretary of the Interior's Professional Qualifications Standards in history or architectural history evaluate which of the resources in that list are historical resources, either individually or as district elements.
- c. Documentation of resources evaluated hereunder need to include California Department of Parks and Recreation 523B forms (Building, Structure, Object Record), and, as appropriate, 523D forms (District Record).
- d. Please provide the resume of each person responsible for each of the above evaluations, if it has not already been provided.
- e. Please assess the degree to which the integrity of the setting of each historical resource that is ultimately found above may be compromised as a result of the project's construction, operation, or maintenance.

Response:

JRP Historical Consulting, LLC, developed the Historic Architectural Study Area (Study Area) for the KCRD CPP in accordance with guidelines developed by the CEC for cultural resources studies, and in consultation with CEC cultural resources staff (Personal Communication between Beverly Bastion, CEC and Rand Herbert, JRP Historical Consultants, dated January 22, 2007). The Study Area was designed to include the project site and a buffer extending a radius of one-half mile from the edges of the parcel containing the proposed plant site, as well as a one-half mile wide buffer on either side of the planned transmission line, except where the proposed transmission line paralleled an existing transmission line, in which case the survey area would only extend to the existing transmission line.

Once the Study Area was defined, JRP staff reviewed previous historical surveys to determine whether any buildings, structures, objects, districts, or sites in or near the Study Area had been previously identified as potential historical resources. No previously designated historic districts or landscapes that qualify as historical resources were identified in or near the Study Area, either as a result of the review of previous surveys or as evaluated under the current survey. Although



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the landscape of the Study Area reflects an agricultural heritage that has characterized the region for over a century, it is typical of any number of similar agricultural landscapes that blanket the southern San Joaquin Valley. Furthermore, and perhaps more importantly, the collection of built environment features in and around the Study Area – various standing buildings and structures, irrigation works, roads and other infrastructure – has continued to evolve over time, such that the landscape does not impart a sense of time and place to the early or pioneer period of historical development, namely the decades surrounding the turn of the twentieth century.

Of those parcels located within the Study Area that contain buildings and structures, roughly 90 percent include farm complexes or residences. Of these, however, only two contain residences that were built in the late 1800s, and about 20 contain buildings dating to the 1900-1920 period. This is compared to an estimated 100 parcels that contain buildings and structures built from the 1920s to the present (about half of which are “modern,” which for the purposes of this study means built after 1962). Also, in the post-World War II era, there was a trend to build residential properties on smaller lots without an agricultural component. Many of these are located in small subdivisions developed in the 1940s and 1950.

The landscape and built environment has been modified in other ways as well. The half dozen irrigation canals that pass through or near the Study Area have been continually upgraded and modified; for all intents and purposes they are products of the latter half of the twentieth century. Three pioneer-period country schools once located in the Study Area are no longer extant and have been replaced by the Indianola Elementary School, a multiple-unit campus built in the 1950s. Although the early road patterns are more or less the same as during the 1920s, all major county roads have been subsequently paved to modern standards. Manning Avenue, which passes from west to east through the heart of the Study Area, has been expanded to a major four-lane thoroughfare. Other late twentieth-century intrusions to the landscape include a corridor of large transmission towers and the McCall Substation that they serve; the 113-acre County of Fresno Southeast Regional Disposal facility; and a water treatment plant, owned by the City of Parlier. As a result of the cumulative effects of these changes to the built environment, the landscape surrounding the Study Area does not convey an authentic sense of the past, but rather reflects ongoing changes in land use that persist to the present. There does not appear to be any justification for CRHR or NRHP-eligible historic district or landscape in or around the Study Area for this project.

Review of the *Index of Historic Properties in Fresno County*, a listing of properties of local significance administered by the Fresno County Historical Landmarks and Records Advisory



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Commission, identified three locally-recognized landmarks that are historical resources for the purposes of the California Environmental Quality Act (CEQA):

- County Historical Landmark #117: Jamieson Residence, a farmhouse built in 1883 at 8601 East South Avenue (JRP Map Reference #70)
- County Historical Landmark #131: Jensen Residence, an early 1900s residence and farm located at 8262 South Bethel Avenue (JRP Map Reference #54)
- County Historical Landmark #185: Avery Residence, an early 1900s residence and farm located at 9280 South Bethel Avenue (JRP Map Reference #2)

In addition to these historical resources, JRP identified a fourth potential historical resource within the Study Area as part of the cultural resources evaluation process for this project:

- Martin Residence, a circa 1894 residence and farm located at 8603 South McCall Avenue (JRP Map Reference #80).

JRP recorded and evaluated each of these resources on California Department of Parks and Recreation 523B forms, attached to the HRIER as Appendix B. The HRIER was submitted to the CEC in September 2007.

This study concludes that the integrity of setting of each of the four historical resources listed above would not be compromised as a result of the project's construction, operation, or maintenance. There would be no substantial adverse change in significance to any of the resources as a result of visual impacts, as discussed below.

Unger/Avery Residence (JRP Map Reference #2)

The ranch house and appurtenant buildings on this parcel are situated approximately one-third of a mile (650 meters) north of the proposed plant site and one-quarter mile (500 meters) east of the proposed transmission line. While the power plant and transmission line would be visible from various locations on the ranch parcel, the residence itself is effectively screened by surrounding trees. Several large oak trees and a row of cypress trees flank the south side of the building, totally obscuring the view to the south toward the power plant site (see Attachment Cul-2 - Photograph 1).

Any visual intrusion to the rest of the parcel would only moderately affect integrity of setting and feeling, but would not affect aspects of location, materials, workmanship, design, or association



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of the significant resources on the parcel. This indirect visual impact would not alter in an adverse manner those physical characteristics of the resource that convey its historical significance.

Jensen Residence (Map Reference #54)

The Jensen Residence is located on South Bethel Avenue, approximately one and one-quarter mile (2,000 meters) from the proposed plant site and 500 to 600 meters from the proposed transmission line routes. There will be no visual impact to the resource because large trees on the south and west sides of the contributing buildings and structures block all sightlines to project components (see Attachment Cul-2 - Photographs 2 and 3). Construction of either the plant or the transmission line will not alter the character-defining features of the historic residence for which it was found to be historically significant, nor would they significantly diminish the historic integrity of setting that contributes to the residence's significance.

Jamieson Residence (Map Reference #70)

The Jamieson Residence is located approximately five miles from the proposed plant site and approximately one-third of a mile (630 meters) from the proposed transmission line. As shown in Attachment Cul-2 - Photograph 4, tall, mature trees almost completely surround the residence, and there is an orchard located to the south, between the residence and the transmission line route. Given the considerable distance from the proposed plant site and surrounding trees, there does not appear to be any potential for visual impacts from the plant. Construction of the transmission line will not affect the viewshed because sightlines are screened by the surrounding trees and intervening orchard.

Martin Residence (Map Reference #80)

The Martin Residence is located three miles from the proposed plant site and approximately 500 feet (150 meters) from the proposed transmission line. As shown in Attachment Cul-2 - Photograph 5, tall, mature trees almost completely surround the residence. Given the considerable distance from the proposed plant site and the surrounding trees that completely block sightlines to the plant, there does not appear to be any potential for visual impacts. Although the proposed transmission line may be visible from portions of the rear (northeast corner) of the residence, the visual impact would be minimal. It would have only a minor effect on integrity of setting and feeling, but would not affect aspects of location, materials, workmanship, design, or association, and would not alter the character-defining features of the residence.



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JRP Staff Historians Bryan Larson and Mark Beason completed the evaluations of the resources listed above. Mr. Larson holds a B.A. in History from the University of California, Los Angeles, and an M.A. in Public History from California State University, Sacramento. He has been with JRP since 1998 conducting historic survey and evaluation studies. Mr. Beason holds an M.A. in History from Arizona State University and a graduate certificate in Historic Preservation from the University of Colorado at Denver. He has been with JRP since 2006 and has conducted various historic survey and evaluation studies. Based on their level of education and experience, Mr. Larson and Mr. Beason qualify as historian / architectural historian under the United States Secretary of the Interior's Professional Qualification Standards (as defined in 36 Code of Federal Regulations Part 61).



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ATTACHMENT CUL-2

Photographs of Historic Resources



**KRCD COMMUNITY
POWER PLANT**

Energy for our Future

Data Request 20 - Photograph Attachments



Photograph 1. Avery/Unger Residence (JRP Map Reference #2). The residence, shown at center, is surrounded by large oak trees and flanked on the south (right side) by a large row of cypress trees. These trees effectively block the sightline to the proposed plant site, which is located about 650 meters to the south, and reduce the visual intrusion of the proposed transmission line, which is would be located approximately 400 meters behind the position of the photographer.



Photograph 2. Jensen Residence (JRP Map Reference #54). View facing southeast. Mature trees, shown at right, block the southern and western sightlines between the residence and project components.



Photograph 3. Jensen Residence (JRP Map Reference #54). View facing northeast showing trees on west (foreground) and south (right) sides of residence.



Photograph 4. Jamieson Residence (JRP Map Reference #70). View facing southwest towards residence, showing surrounding trees and orchards (left) that screen the sightlines toward the proposed transmission line (far left).



Photograph 5. Martin Residence (JRP Map Reference #80). View facing southwest towards residence, showing surrounding trees and orchards (left) that screen the sightlines toward the proposed transmission line (out of frame to the right).

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Data Request 21:

Please discuss why the appropriate historical theme for the subject conveyances is simply the development of the local agricultural economy in the late nineteenth and early twentieth centuries rather than the development *and* the subsequent operation of the canals through the late 1950's, as agriculture remained the mainstay of the local economy through that time.

Response:

Attachment Cul-3 provides a replacement to Section 5.2.2 in the HRIER, which was previously submitted to the CEC. No changes have been made to the first paragraph; however the second, third and fourth paragraphs should place the second and third paragraphs in the original report.



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ATTACHMENT CUL-3

Replacement-HRIER Section 5.2.2



5.2.2. Resources not Eligible for the CRHR

The rural residential / farm properties addressed by this report were evaluated within the context of the residential and agricultural development of the area during the late nineteenth and early twentieth century (Criteria A and 1). By the turn of the twentieth century, settlement and agricultural patterns that characterize this rural part of southern Fresno County had been firmly established. The four properties described above in Section 5.2.1 are early and intact examples that best represent the pioneer era of this important theme. The remaining farmsteads and rural residential properties addressed in this study were part of the typical semi-rural residential and agricultural land uses that existed in this area throughout most of the twentieth century. These properties did not play a distinctly important role in the development of small agricultural operations in the Study Area and they do not have important associations with events that have made a significant contribution to the broad patterns of local or regional history. In addition, research conducted for this project did not suggest that any of these properties are associated with the lives of persons important to our past, as defined by Criteria B and 2. None of the properties appear to embody the distinctive characteristics of a type, period, or method of construction, nor do they represent the work of a master or possess high artistic value (Criteria C and 3). Finally, the remaining resources within the Study Area have not yielded, nor will likely yield, important information for history (Criteria D and 4).

There are five irrigation canals that pass through the Study Area for this project: the Selma Branch of the Centerville and Kingsburg Canal (Map Reference #90), completed in 1878; Walnut Ditch (Map Reference #91), built circa 1891; the Kirby Ditch (Map Reference #92) and Kirby Canal (Map Reference #94), built in 1882 and divided into two individual canals in the mid-twentieth century; and the Fowler Switch Canal (Map Reference #93), built in 1883. With the exception of the Walnut Ditch, a secondary canal that was built relatively late in the era of irrigation development, all of the water conveyances studied herein made significant contributions to the development of southern Fresno County. The Selma Branch of the Centerville and Kingsburg Canal, the Kirby Ditch, the Kirby Canal, and the Fowler Switch Canal, all major water conveyances built during the 1870s and early 1880s, were among the first irrigation canals to reach Fowler and Selma and their surrounding agricultural districts. Without these early and major canals, the development of intensive agriculture on small parcels that characterizes the Study Area would not have been possible. These canals, therefore, have the potential for significance under Criteria A and 1 for associations with agricultural developments in southern Fresno County, provided that they retain integrity to the period in which they achieved their significance.

Establishing a defensible period of significance for irrigation canals can be challenging because their importance to the local agricultural and economic underpinnings of communities they serve continues to the present. In this way, irrigation systems and their individual components are similar to a number of public works projects including state and local road systems, railroads, municipal water and sewer systems, and other major utility systems. As members of a class of infrastructure that delivers benefits to broad constituencies, irrigation canals have become vital, indispensable elements of their local communities and economies. They are also common elements of the landscape, particularly in the Central Valley where they can be found everywhere that crops are cultivated. These considerations are useful in appreciating how significance should be assessed for such properties because, in a sense, every example of this type could be described as important.

Following National Register guidelines, the period of significance under Criterion A (1) should cover the span of time in which the property made significant contributions to the broad patterns of our history.¹ The guidelines further state that “continued use or activity does not necessarily justify continuing the period of significance. The period of significance is based upon the time when the property made the contributions or achieved the character on which significance is based.”² For the irrigation canals studied here, their potential for significance lies with their role in the transformation of the agricultural character of southern Fresno County from an arid plain devoted to stockraising and dry farming to the intensively farmed district that it is today. Their period of significance should be restricted to the time frame that this change took place. As discussed in the historic context above, within the Study Area this important historical trend began in the late 1870s and early 1880s with the construction of the Centerville and Kingsburg Canal, the Fowler Switch, and other canals. This trend culminated by the turn of the twentieth century, by which time the Study Area had been transformed into the growing region that it is today: irrigated farms on relatively small parcels primarily devoted to raisin culture. The period of significance for the four potentially eligible canals evaluated as part of this study, then, would begin with the year that they were built and end about 1900.

¹ USDI, NPS, “How to Apply the National Register Criteria for Evaluation,” 12-13.

² USDI, NPS, “How to Complete the National Register Registration Form,” *National Register Bulletin 16A* (Washington, D.C.: Government Printing Office, 1990), 42.

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Data Request 22:

Of the 17 water conveyance segments that Pacific Legacy found, please clarify:

- a. Which are parts of the five named conveyances that JRP evaluated, and identified as parts of the Consolidated Irrigation District system.
- b. Which are parts of the Consolidated Irrigation District system while being distinct from the five named conveyances that JRP considers.
- c. Which, if any, are conveyances that operate apart from the Consolidated Irrigation District system.

Response:

Pacific Legacy recorded 17 newly identified irrigation canal features and updated two previously recorded irrigation canal features for a total of 19 resources. Of the 17 newly identified irrigation canals, three of these were also located within the view shed of the plant site or overhead transmission line and were thus evaluated by JRP. Two additional irrigation canals were located within the view shed of the plant site and/or transmission line and were evaluated by JRP but were located beyond the archaeological survey corridor and were thus not recorded by Pacific Legacy. Therefore, there are a total of 21 irrigation resources within the project area, 5 of which were evaluated by JRP. The remaining 16 unevaluated irrigation canals are beyond the view shed of the plant and/or overhead transmission lines but within the water and/or gas pipeline survey corridors. However, the project area survey corridors were wider than the ADI for installing the gas and water pipelines. The installation and maintenance of these project components will avoid impacting these existing irrigation features. The 16 unevaluated irrigation features will be evaluated prior to project construction. If any of these perpendicular linear resources are determined to be eligible for listing on the CHHR or NRHP, the pipeline will either be realigned or the pipeline will be constructed by boring to avoid impacting the resource. Thus, resource avoidance will occur through a combination of directional boring under linear feature crossings and/or realignment of pipeline routes paralleling linear resources. The 16 unevaluated irrigation features are likely part of the Consolidated Irrigation District system, but since evaluation has yet to be conducted, their exact association is presently unknown. The following table contains a list of canal features identified by both Pacific Legacy and JRP.



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| Comprehensive Irrigation Canal Features Identified by both JRP and Pacific Legacy Surveys (n=21) | | | | | |
|---|--|---|-------------------|--|--|
| JRP Map Reference Number | Pacific Legacy Field Designation or Primary Number* | Description | Year Built | Eligible for CRHR or NRHP | Location within Project Area |
| JRP 90 | PLI-2, PLI-8 & PLI-13 | Selma Branch of the Centerville and Kingsburg Canal | 1878 | No | View shed of plant site or transmission line |
| JRP 91 | PLI-9 | Walnut Ditch | ca. 1891 | No | View shed of plant site or transmission line |
| JRP 92 | PLI-10 | Kirby Ditch | 1882 | No | View shed of plant site or transmission line |
| JRP 93 | n/a | Fowler Switch Ditch | 1883 | No | View shed of plant site or transmission line |
| JRP 94 | n/a | Kirby Canal | 1882 | No | View shed of plant site or transmission line |
| n/a | PLI- 14 | Harp Ditch | ? | Will be evaluated prior to construction. If determined eligible for listing on the CRHR or NRHP, will be avoided by boring or realignment. | Within water pipeline ROW |
| n/a | PLI-15 & PLI-50 | Cole Slough Canal | ? | Will be evaluated prior to construction. If determined eligible for listing on the CRHR or NRHP, will be avoided by boring or realignment. | Within water & gas pipeline ROW |
| n/a | PLI-20 | Colony Ditch | ? | Will be evaluated prior to construction. If determined eligible for listing on the CRHR or NRHP, will be avoided by boring or realignment. | Within gas pipeline ROW |
| n/a | PLI-30 | Ward Drainage Canal | ? | Will be evaluated prior to construction. If determined eligible for listing on the CRHR or NRHP, will be avoided by boring or realignment. | Within gas pipeline ROW |
| n/a | PLI-33 | Kingsburg Branch Canal | ? | Will be evaluated prior to construction. If determined eligible for listing on the CRHR or NRHP, will be avoided by boring or realignment. | Within gas pipeline ROW |



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| Comprehensive Irrigation Canal Features Identified by both JRP and Pacific Legacy Surveys (n=21) | | | | | |
|---|--|--------------------------|-------------------|--|-------------------------------------|
| JRP Map Reference Number | Pacific Legacy Field Designation or Primary Number* | Description | Year Built | Eligible for CRHR or NRHP | Location within Project Area |
| | | | | avoided by boring or realignment. | |
| n/a | PLI-37 | Santa Fe Canal | ? | Will be evaluated prior to construction. If determined eligible for listing on the CRHR or NRHP, will be avoided by boring or realignment. | Within gas pipeline ROW |
| n/a | PLI-55 | Unknown Irrigation Canal | ? | Will be evaluated prior to construction. If determined eligible for listing on the CRHR or NRHP, will be avoided by boring or realignment. | Within gas pipeline ROW |
| n/a | PLI-63 | Caesar Canal | ? | Will be evaluated prior to construction. If determined eligible for listing on the CRHR or NRHP, will be avoided by boring or realignment. | Within gas pipeline ROW |
| n/a | PLI-67 | McClanahan Ditch | ? | Will be evaluated prior to construction. If determined eligible for listing on the CRHR or NRHP, will be avoided by boring or realignment. | Within gas pipeline ROW |
| n/a | PLI-70 | Unknown Irrigation Canal | ? | Will be evaluated prior to construction. If determined eligible for listing on the CRHR or NRHP, will be avoided by boring or realignment. | Within gas pipeline ROW |
| n/a | PLI-77 | Unknown Irrigation Canal | ? | Will be evaluated prior to construction. If determined eligible for listing on the CRHR or NRHP, will be avoided by boring or realignment. | Within gas pipeline ROW |
| n/a | PLI-81 | Unknown Irrigation Canal | ? | Will be evaluated prior to construction. If determined eligible for listing on the Register, resource will be avoided by boring. | Within gas pipeline ROW |



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| Comprehensive Irrigation Canal Features Identified by both JRP and Pacific Legacy Surveys (n=21) | | | | | |
|---|--|--|-------------------|--|-------------------------------------|
| JRP Map Reference Number | Pacific Legacy Field Designation or Primary Number* | Description | Year Built | Eligible for CRHR or NRHP | Location within Project Area |
| n/a | PLI-85 | Mill Creek Ditch | ? | Will be evaluated prior to construction. If determined eligible for listing on the CRHR or NRHP, will be avoided by boring or realignment. | Within gas pipeline ROW |
| n/a | PLI-88 | North Fork Irrigation Canal | ? | Will be evaluated prior to construction. If determined eligible for listing on the CRHR or NRHP, will be avoided by boring or realignment. | Within gas pipeline ROW |
| n/a | P-54-002171 | Traver Canal – previously recorded. Recently updated by PLI. | ? | Will be evaluated prior to construction. If determined eligible for listing on the CRHR or NRHP, will be avoided by boring or realignment. | Within gas pipeline ROW |
| n/a | P-54-002172 | Banks Ditch – previously recorded. Recent update by PLI. | ? | Will be evaluated prior to construction. If determined eligible for listing on the CRHR or NRHP, will be avoided by boring or realignment. | Within gas pipeline ROW |
| *multiple designation denote various sections of same linear feature | | | | | |



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Data Request 23:

To facilitate a more explicit assessment of the proposed project's potential to impact individual water conveyances and water conveyance districts that are historical resources:

- a. Please have a person who meets the Secretary of the Interior's Professional Qualifications Standards in history or architectural history evaluate any of the conveyances above which are in sight of the main plant facility or the new transmission line as either individual conveyance resources, or as contributing elements to Consolidated Irrigation Canal or Consolidated Irrigation District historic districts.
- b. Documentation for the evaluation of any such resources needs to include California Department of Parks and Recreation 523B forms (Building, Structure, Object Record), and, as appropriate, 523D forms (District Record).
- c. Please provide the resume of each person responsible for each evaluation, if it has not already been provided.
- d. Should the above evaluation result in the recognition of a historical resource not previously considered here, a new individual conveyance or a new conveyance district, please assess the degree to which the integrity of the setting of each such historical resource may be compromised as a result of the project's construction, operation, or maintenance.

Response:

Only the five irrigation features evaluated by JRP (three of which were also recorded by Pacific Legacy) are within the view shed of the plant and/or overhead transmission line.

None of the five irrigation features warranting evaluation (since they were in the project view shed) were recommended as eligible (see the HRIER which was submitted to the CEC in September 2007). These resources were documented and detailed on appropriate DPR forms. The remaining 16 irrigation features within the Pacific Legacy project survey corridor, but beyond the ADI for buried pipeline installation, were not evaluated as they will not be impacted by the KRCD CPP.



KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89

Technical Area: Hazardous Materials Management

Data Request 24:

Please provide information on the location and the identities/quantities of hazardous materials stored at any facility located or proposed to be located within a 1-mile radius of the proposed power plant. If there are no facilities either in existence or proposed to be built, please so indicate.

Response:

A request for this information was previously submitted to the Fresno County Department of Community Health. On January 18, 2008, Mr. Glenn Allen, Fresno County Environmental Health Specialist responded with a letter identifying the following six facilities:

- Gullian Farming Equipment, 13000 E Manning Avenue, Parlier
- Nextel-Comm-Parlier #361, 12949 E Manning Avenue, Parlier
- Tiger Auto Sales, 13069 E Manning Avenue, Parlier
- Southeast Regional Disposal, 12716 E Dinuba, Selma
- Huntsman Avenue Inert Waste Landfill, 12253 E Huntsman, Selma
- Bethel Ave Disposal Site, 10758 S Bethel Avenue, Selma

A copy of the letter is included as Attachment Haz Mat-1. On February 7, 2008 follow-up discussions were held with Ms. Sandy Allen and Mr. Ted Piearcy of Fresno County regarding the types and quantities of hazardous materials for these six facilities. Ms. Allen indicated that all six facilities had completed either Form 2240 or 2246. The former indicates that the facility holds amounts of hazardous materials below the reporting quantity thresholds and the latter indicates the facility is an un-manned site that holds amounts of hazardous materials below the reporting quantity thresholds. Mr. Piearcy confirmed the reporting thresholds as 55 gallons, 200 cubic feet or 500 lbs.

Although these six facilities, which are within 1-mile of the KRCD CPP, are required to file forms indicating their storage/use of hazardous materials, the quantities involved are less than significant (i.e., less than the reporting thresholds), and therefore information about the types and amounts of hazardous materials at these facilities is not available from the Department of Community Health, which is responsible for tracking this information.



**KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89**

Note that as discussed in AFC Section 8.8.3.5 (Hazardous Materials) AFC, there will be no significant off-site impacts from any accidental releases of hazardous materials stored and used at the project site. Consequently, there will be no off-site cumulative impact.



**KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89**

ATTACHMENT HAZ MAT-1

Letter from Fresno County



**KRCD COMMUNITY
POWER PLANT**

Energy for our Future

HAZ-3



1/26/08

County of Fresno

Department of Community Health
Edward L. Moreno, M.D., M.P.H., Director-Health Officer

January 18, 2008

999999999
LU0014188
PE 2600

Thor Hibbeler
1910 Fell
San Francisco, CA 94117

Dear Mr. Hibbeler:

SUBJECT: Kings River Conservation District Community Power Project Hazardous
Material Locations Within 1-Mile Of Proposed Project Site.

LOCATION: 9664 S. Bethel Avenue, Parlier. APN # 358-031-33

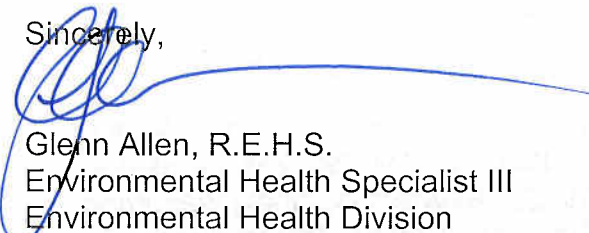
This Department has record of six known facilities that may be within one mile of the proposed project site that contains or handles hazardous or acutely hazardous materials. (See enclosed map) The facilities are:

Gullian Farming Equipment, 13000 E. Manning Avenue, Parlier
Nextel Comm-Parlier #361, 12949 E. Manning Avenue, Parlier
Tiger Auto Sales, 13069 E. Manning Avenue, Parlier
Southeast Regional Disposal, 12716 E. Dinuba, Selma
Huntsman Ave Inert Waste Landfill, 12253 E. Huntsman, Selma
Bethel Avenue Disposal Site, 10758 S. Bethel Avenue, Selma

In order to determine material types and quantities at each of the indicated facilities you will need to complete an independent file review of the subject facility files maintained by this Department. You may contact the Certified Unified Program Agency at (559) 445-3271 for more information.

If I can be of further assistance, please contact me at (559) 445-3357.

Sincerely,



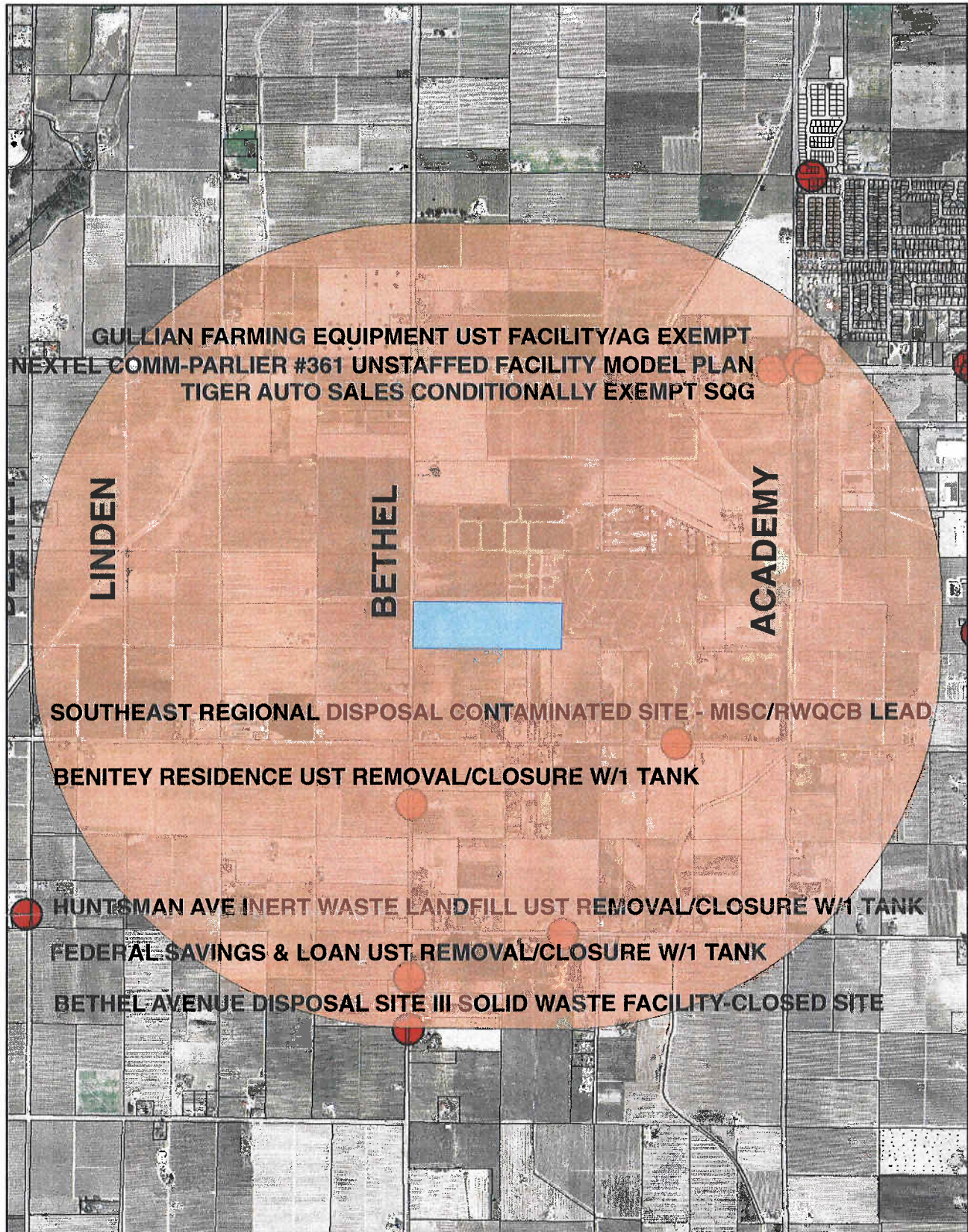
Glenn Allen, R.E.H.S.
Environmental Health Specialist III
Environmental Health Division

ga

cc: Vince Mendes, Environmental Health Division (CT 6801)

KRCD Community Power Project 1-Mile Haz Mat Request

KRCD Community Power Plant 1-Mile Haz Mat Radius



0 1,300 2,600 5,200 7,800 10,400 Feet

Map Prepared by Glenn Allen 1/18/2008

KRCD Community Power Plant 1-Mile Haz Mat Radius



0 1,300 2,600 5,200 7,800 10,400 Feet

Map Prepared by Glenn Allen 1/18/2008

KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89

Technical Area: Land Use

Data Request 25:

Please provide written confirmation from Fresno County as to whether the project would need a conditional use permit, variance, or any other land use entitlement from the County but for the exclusive authority of the Energy Commission.

Response:

As described in AFC Section 8.4-Land Use, pages 14 to 21, Government Code Section 53091 governs the applicability of building and zoning ordinances to electrical generation facilities. Subparagraph (d) of that section makes it clear that building ordinances of a county or city do not apply to the location or construction of electrical energy generation facilities for a local agency. Subparagraph (e) also says that zoning ordinances of a county or city do not apply to such facilities. KRCD, as a local public agency, is exempt from the conditional use permit (CUP) process and is not required to comply with city or county building or zoning ordinances for the KRCD CPP. Therefore, the KRCD CPP will not require a CUP, variance or any other land use entitlement from Fresno County.



**KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89**

Technical Area: Land Use

Data Request 26:

Please provide written confirmation from Fresno and Tulare counties as to what use permits or land use entitlements they would require for offsite linear facilities, but for the exclusive authority of the Energy Commission.

Response:

Please see response to Data Request 25. KRCD has requested written confirmation from the Fresno and Tulare County Counsel's Offices.



**KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89**

Technical Area: Land Use

Data Request 27:

If the project would need a conditional use permit, please provide the conditions, if known, that Fresno County would place on the project or provide a timeline as to when these conditions would become available to staff.

Response

Please see response to Data Request 25.



**KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89**

Technical Area: Land Use

Data Request 28:

Please provide written confirmation from Fresno County whether, in the County's opinion, a variance could be granted and, if so, what conditions Fresno County would require, were it the permitting agency.

Response

Please see response to Data Request 25.



**KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89**

Technical Area: Land Use

Data Request 29:

Please provide Fresno County's position on the proposed project's consistency with its General Plan and Zoning Ordinance.

Response

Please see response to Data Request 25.



**KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89**

Technical Area: Land Use

Data Request 30:

Please cite the section(s) of the zoning or other code that state the findings the County would make for a variance or variances, were it the permitting agency.

Response

Please see response to Data Request 25.



**KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89**

Technical Area: Land Use

Data Request 31:

Please provide a figure(s) and descriptive labels or text identifying sensitive receptors within 200 feet of the centerline of linears and any associated appurtenances.

Response

Included as Attachment Land Use-1 is a map of the KRCD CPP project which identifies sensitive receptors in the area.



**KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89**

ATTACHMENT LAND USE-1

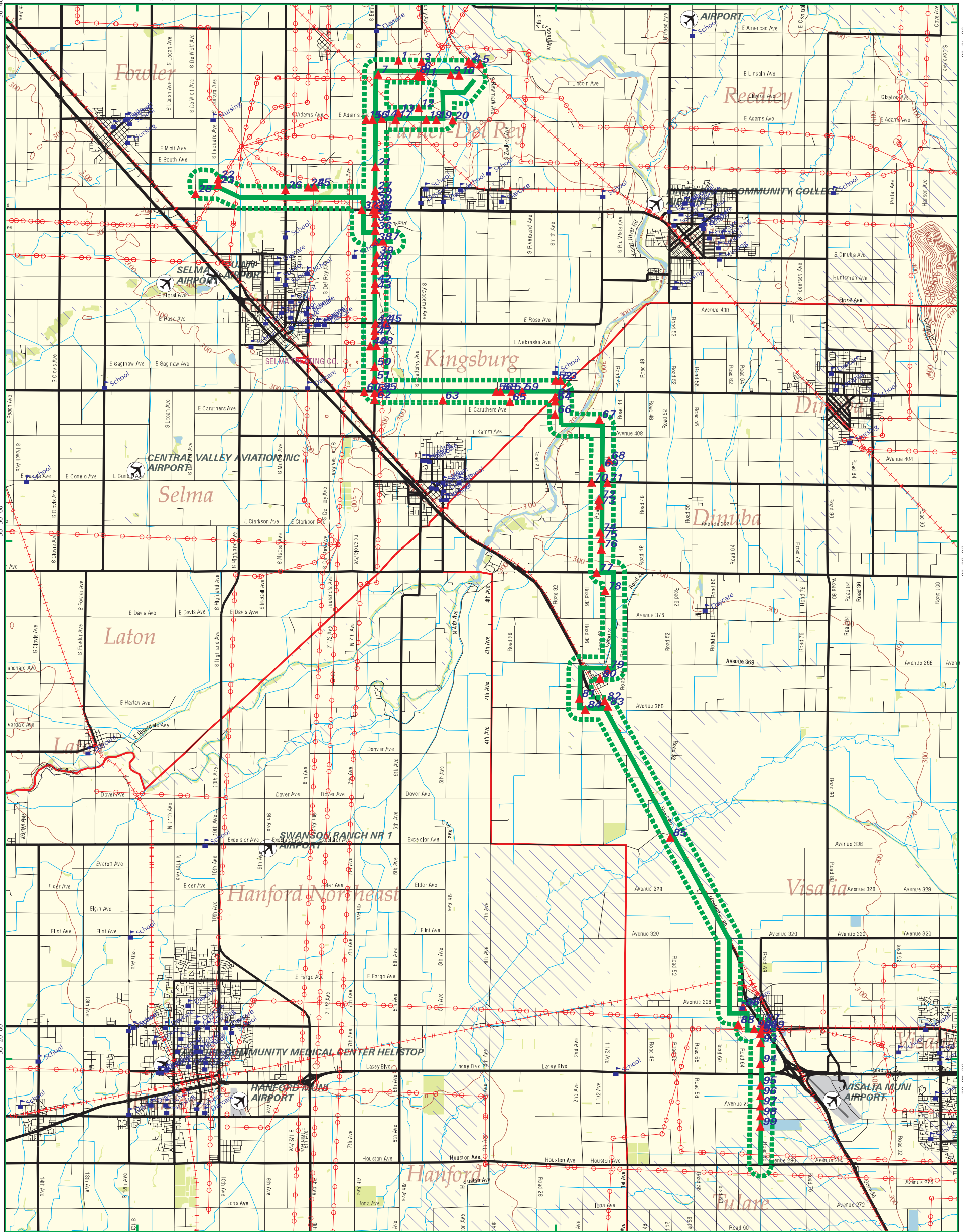
Map Showing Sensitive Receptors



**KRCD COMMUNITY
POWER PLANT**

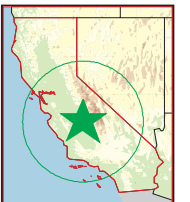
Energy for our Future

LAND-8



EDR DataMap® –Corridor Study

KRC CPP



Fresno, CA

- | | | | |
|--|---------------|-------------|-------------------------|
| Listed Sites | Major Roads | Pipelines | Superfund Sites |
| Earthquake Epicenters (Richter 5 or greater) | Waterways | Powerlines | Federal DOD Sites |
| Search Boundary | Railroads | Fault Lines | Indian Reservations BIA |
| Roads | Contour Lines | Water | 100-Yr Flood Zones |



0 1 2

Scale in Miles

KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89

Technical Area: Land Use

Data Request 32:

Please describe what temporary fill or paving would be used and at what locations.

Response:

Temporary surface improvements will be made to the parking and laydown areas shown on AFC Figure 2-2, General Arrangement – Construction Parking and Laydown Areas. Figure 2-2 has been revised to include a new construction parking and staging area located on the west side of Bethel Avenue and to the northwest of the KRCD CPP project site. Revised Figure 2-2 is included as Land Use-2. This new parking and staging area is being added to the KRCD CPP. KRCD is completing an engineering and environmental analysis of this new staging area which will be submitted to the CEC in late March 2008.

For the parking and laydown areas, engineered fill will be placed and compacted in accordance with the geotechnical report (see AFC Appendix 2-7-Geotechnical Design Criteria). Engineered fill will either be the on-site native soils (non-topsoil) or imported soil fill. The fill will be covered with a layer of gravel to provide a stable mud-free surface.



**KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89**

ATTACHMENT LAND USE-2

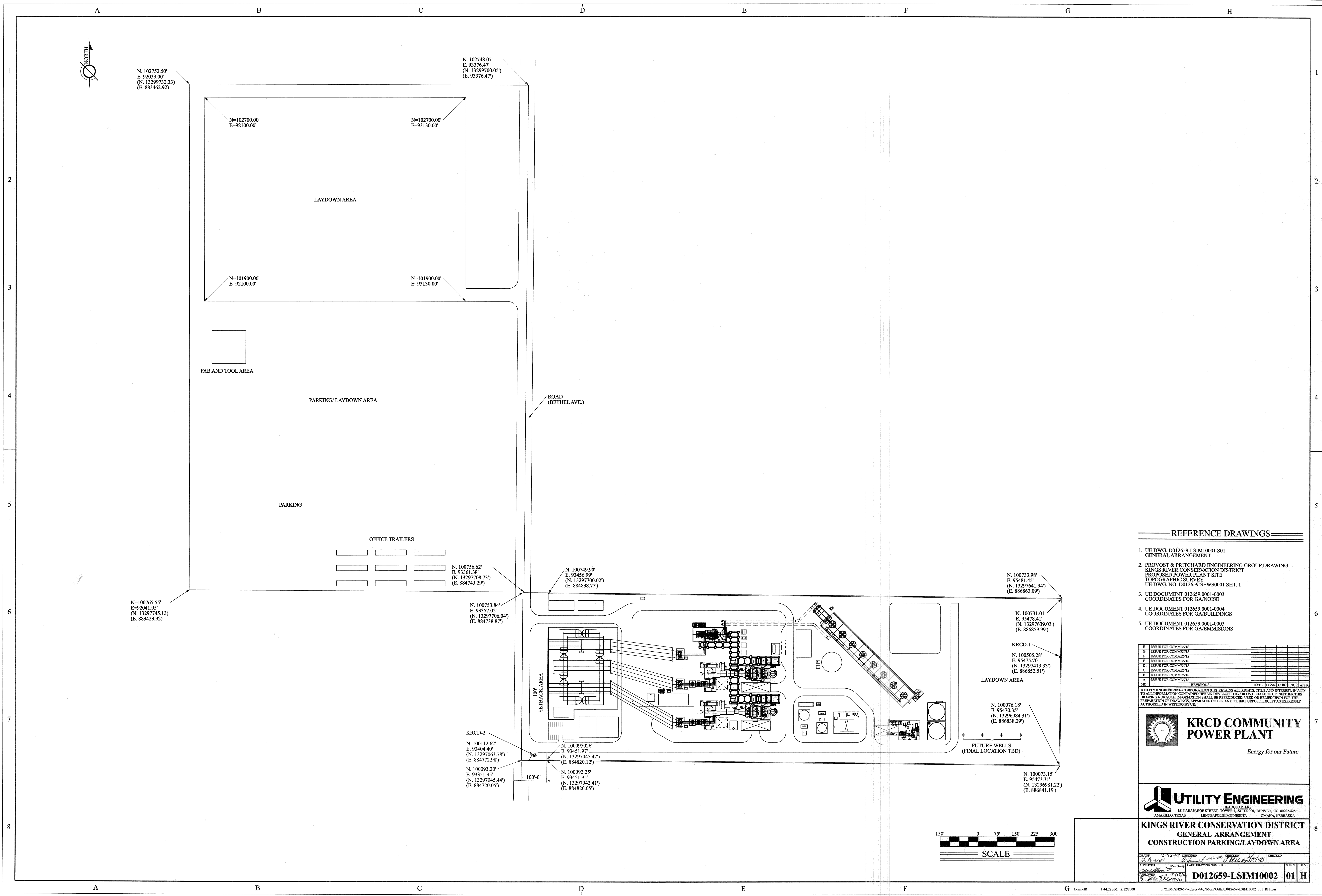
Revised Figure 2-2



**KRCD COMMUNITY
POWER PLANT**

Energy for our Future

LAND-11

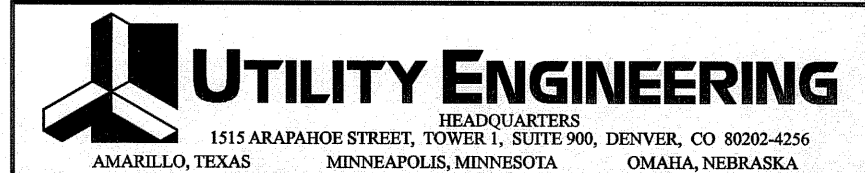


REFERENCE DRAWINGS

1. UE DWG. D012659-LSIM10001 S01
GENERAL ARRANGEMENT
2. PROVOST & PRITCHARD ENGINEERING GROUP DRAWING
KINGS RIVER CONSERVATION DISTRICT
PROPOSED POWER PLANT SITE
TOPOGRAPHIC SURVEY
UE DWG. NO. D012659-SEWS0001 SHT. 1
3. UE DOCUMENT 012659.0001-0003
COORDINATES FOR GA/NOISE
4. UE DOCUMENT 012659.0001-0004
COORDINATES FOR GA/BUILDINGS
5. UE DOCUMENT 012659.0001-0005
COORDINATES FOR GA/EMISSIONS

| NO | REVISIONS | DATE | DSR | CHK | ENGR | APPR |
|----|--------------------|------|-----|-----|------|------|
| 1 | ISSUE FOR COMMENTS | | | | | |
| 2 | ISSUE FOR COMMENTS | | | | | |
| 3 | ISSUE FOR COMMENTS | | | | | |
| 4 | ISSUE FOR COMMENTS | | | | | |
| 5 | ISSUE FOR COMMENTS | | | | | |
| 6 | ISSUE FOR COMMENTS | | | | | |
| 7 | ISSUE FOR COMMENTS | | | | | |
| 8 | ISSUE FOR COMMENTS | | | | | |

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KINGS RIVER CONSERVATION DISTRICT
GENERAL ARRANGEMENT
CONSTRUCTION PARKING/LAYDOWN AREA

| | | | | | |
|--------------------------------|-------------------------------|------------------|-------------------|-------------|----------|
| DESIGNED BY E. P. Pritchard | CHECKED BY J. M. Pritchard | DATE 12/12/06 | SCALE AS SHOWN | SHEET 01 | REV H |
|--------------------------------|-------------------------------|------------------|-------------------|-------------|----------|

D012659-LSIM10002

**KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89**

Technical Area: Land Use

Data Request 33:

Please describe what methods would be used to restore temporarily-used sites to their former condition after construction of the project is complete.

Response:

Construction equipment such as bulldozers, graders and/or front end loaders will be used to remove the temporary gravel and structural fill. The exposed surface will be scarified, covered with a layer of topsoil, and replanted with vegetation in accordance with the draft Drainage Erosion and Sediment Control Plan (DESCP) that is being prepared in response to Data Request 70.



**KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89**

Technical Area: Land Use

Data Request 34:

Please describe whether, outside of the foot print of project facilities, what practices (such as agriculture) would be permitted within the rights-of-way.

Response:

For the proposed transmission line right-of-way, land uses would only be limited to those uses that are not inconsistent with transmission line safety and are consistent with transmission line use. For example, no large metal structures would be permitted near or in the transmission line right-of-way for safety reasons. Land along the transmission line right-of-way, that is currently used for agricultural purposes would be expected to remain agriculture. Also land in the transmission line right-of-way that is not currently being used for agricultural uses, could be used for agricultural uses after the proposed transmission line is constructed. With regards to the natural gas and water pipeline routes, there would be no limits to uses in these rights-of-way.



KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89

Technical Area: Land Use

Data Request 35:

Please explain on what basis the proposed ratio of preserved to occupied (built upon) agricultural land was determined.

Response:

Lacking any established planning criteria for Fresno County, the 1:1 ratio was proposed as being equitable. KRCD is willing to work with local agencies and the CEC to determine a reasonable and equitable funding to offset for the conversion of agricultural land for the KRCD CPP. It is important to note, however, that KRCD CPP site is adjacent to the Parlier wastewater treatment plant, is likely to be within the sphere of influence of the City of Parlier and is currently not providing a high agricultural value. One of the goals of any offsetting program should be to apply the agricultural preservation funds to areas that can sustain high value productive agriculture and avoid development pressure. See response to Data Request 37 for additional information.



KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89

Technical Area: Land Use

Data Request 36:

If funds will be provided to a Trust for farmland preservation, please discuss how KRCD will ensure that the funds will be sufficient to acquire the amount of land that may be agreed upon by the Energy Commission.

Response:

Determination of the funds to be set aside for future purchase of agricultural preserve lands are proposed to be determined by a negotiation between KRCD and the local planning authorities, subject to the CEC's approval.



KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89

Technical Area: Land Use

Data Request 37:

Please identify whether preservation of agricultural land by the applicant or other party would be within Fresno County.

Response:

Any agricultural land preservation set aside for KRCD CPP would be located within Fresno County.

Since initiation of the planning for KRCD CPP, the Fresno County Council of Governments (COG) has undertaken preparation a Model Agricultural Lands Preservation Plan that is scheduled to be published in the 3rd quarter of 2008. This Model is intended to be incorporated in a Fresno County preservation program some time in the future. It is likely that the KRCD CPP project site will not be identified as agriculture land to be preserved in the COG study because of its proximity to the cities of Parlier and Selma, and pending inclusion in the planning Sphere of Influence of the City of Parlier and its location immediately adjacent to the Parlier wastewater treatment plant, which would likely be expanded if the KRCD CPP was not constructed. KRCD believes that an agricultural land set aside mitigation should conform to the Model.

A current Fresno COG effort to develop open space buffers between the 16 cities in Fresno County may provide an opportunity for KRCD agricultural preservation funds to be applied to that effort. KRCD proposes that it continue to confer with the local communities and Fresno County to determine how to best apply its agricultural preservation funds that would most best benefit the ongoing efforts within the County.



**KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89**

Technical Area: Land Use

Data Request 38:

Please explain how the economic viability of any preserved agricultural land would be assured.

Response:

In general the economic viability of any agricultural land can not be assured by KRCD, or anyone. However, the ability to provide a sustained agricultural benefit would be dependent on coordination with the County's efforts to set aside land that will be less subject to future development pressure.



**KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89**

Technical Area: Land Use

Data Request 39:

Please identify whether any preserved land would be adjacent to already preserved land such that together they would provide a larger agricultural unit.

Response:

Please see response to Data Request 37.



KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89

Technical Area: Land Use

Data Request 40:

Please document any discussions or other communication with the County regarding the preservation of farmland and any determinations or suggestions that resulted.

Response:

As discussed above in the response to Data Request 37, Fresno County is in the very early stages of developing an agricultural land preservation program. Ongoing communications with Fresno County Planning Department and the Fresno Council of Governments are planned and will be documented with the CEC.



**KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89**

Technical Area: Land Use

Data Request 41:

Please identify the criteria by which land for preservation would be identified and acquired.

Response:

Criteria for identification and acquisition of agricultural preservation lands are expected to be identified in the COG Model Preservation Program mentioned in the response to Data Request 37 and the subsequent Fresno County laws, ordinances, regulations and standards for Agricultural Land Preservation.



KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89

Technical Area: Land Use

Data Request 42:

Please identify the tax implications, if any, for local jurisdictions and the State if preserved land is owned by a non-profit organization.

Response:

Tax implications relating to ownership of preserved agricultural land would be an issue to be addressed by the Fresno COG Model Land Preservation Program (discussed in the response to Data Request 37) and the Fresno County Board of Supervisors when a formal preservation program is adopted. It is premature and inappropriate for KRCD to attempt to comment on this at this time.



**KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89**

Technical Area: Socioeconomics

Data Request 43:

Please indicate the year for all economic estimates (e.g., construction costs, construction and operation payroll, property taxes, school impact fees, etc.).

Response:

The dollar values are provided in nominal dollars (i.e. the year they occur) and do not need to be adjusted for inflation. With respect to the annual impacts related to plant operation, they correspond to the first year of plant operation (2011).



KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89

Technical Area: Socioeconomics

Data Request 44:

Please discuss whether the CPP, which would be owned by the Kings River Conservation District (KRCD), a multi-county special district public agency that provides resource conservation, would be liable for paying property taxes to Fresno County.

Response:

KRCD does not have to pay property taxes because it is a special district public agency. Because KRCD would own the KRCD CPP and the property, the KRCD CPP would not be liable for paying property taxes.



**KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89**

Technical Area: Socioeconomics

Data Request 45:

If the KRCD would be required to pay property taxes, please verify the dollar amount.

Response:

Please see response to Data Request 44.



**KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89**

Technical Area: Socioeconomics

Data Request 46:

Please discuss whether the CPP, would be liable for paying school impact fees to the Selma Unified School District and the Parlier Unified School District.

Response:

The KRCD CPP would not be liable for paying school impact fees to the Selma Unified School District or the Parlier Unified School District because it would be owned by KRCD, a special district public agency that is not liable for paying these types of fees.



**KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89**

Technical Area: Socioeconomics

Data Request 47:

If the KRCD would be required to pay school impact fees, please verify the dollar amounts.

Response:

Please see response to Data Request 46.



**KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89**

Technical Area: Socioeconomics

Data Request 48:

Please provide the number of annual short-term (contract) operation workers

Response:

KRCD is currently working on this Data Request and expects to file a response in March 2008.



KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89

Technical Area: Socioeconomics

Data Request 49:

Please verify whether the estimates of employment and income secondary economic impacts included short-term (contract) operation workers with an annual payroll of \$250,000 or not.

Response:

KRCD is currently working on this Data Request and expects to file a response in March 2008.



**KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89**

Technical Area: Socioeconomics

Data Request 50:

If not, please recalculate the secondary employment and income secondary impacts for operations in Fresno County.

Response:

KRCD is currently working on this Data Request and expects to file a response in March 2008.



KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89

Technical Area: Transmission System Engineering

Data Request 51:

The generator tie-lines for the project have been described in the Application For Certification sections 1.3 and 2.6 as a five mile long, radial line, which would be built with 2156 kcmil ACSR conductor. The SIS indicates the project would use two generator tie-lines which would be built with 795 kcmil ACSS conductor. Please clarify conductor type, size, and number of generator tie-lines which would require interconnecting the CPP project to the PG&E McCall Substation.

Response:

The reference to 2156 thousand circular mil (kcmil) appears in AFC Sections 2.6 and 4.2. The 2156 kcmil reference is incorrect. Use of 2156 kcmil conductor would result in excess capacity and cost. The 795 kcmil reference in the System Impact Study (SIS) is correct. To clarify, the interconnection of the KRCD CPP to the PG&E McCall Substation will require two 230 kV circuits, each using three conductors, each conductor consisting of 795 kcmil aluminum conductor steel supported (ACSS) as described in the SIS.



KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89

Technical Area: Transmission System Engineering

Data Request 52:

The SIS indicated that the San Joaquin Valley Energy Center project (SJVEC) is ahead of the CPP in the California ISO generation queue. Having included the SJVEC in the study assumptions, the addition of the CPP will cause overload on the 70 kV, 115 kV, and 230 kV transmission line which will require a 187.57 miles of line reconductoring. Without the SJVEC project, the addition of the CPP will require the reconductoring of 53.5 miles of 70 kV, 115 kV, and 230 kV lines. Please provide an environmental analysis sufficient to meet CEQA requirements for an indirect project impact of the required transmission line reconductoring both with and without the SJVEC project.

Response:

Since the AFC was filed in late September 2007, the San Joaquin Valley Energy Center project (SJVEC) has dropped out of the California Independent System Operator (CAISO) generation queue. A copy of the latest CAISO interconnection queue is included as Attachment TSE-1. With the SJVEC out of the CAISO queue, only 53.5 miles of line reconductoring is required per the SIS. In addition, PG&E has subsequently determined that some of this line reconductoring is already underway as part of other PG&E system improvements. The final number and location of the necessary line reconductoring will be identified in a revised Facilities Study Plan which PG&E expects to issue in late February 2008. Once this final list is identified, KRCD will work closely with PG&E to obtain access to the necessary easements and rights-of-way to allow environmental analysis sufficient to meet California Environmental Quality Act (CEQA) requirements for an indirect project impact of the required transmission line reconductoring.



**KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89**

ATTACHMENT TSE-1

CAISO Interconnection Queue



The California ISO Controlled Grid Generation Queue
as of: January 25, 2008

| | | | | Generating Facility | | Maximum MWs | | Location | | Point of Interconnection | | | | Study Availability | | | | |
|----------------|--------------------------------------|------------|--------------------|---------------------|------|-------------|--------|-----------------|-------|--------------------------|--|--|----------------------|-------------------------|---------------------------|----------------------|---------------------|----------------------------------|
| Queue Position | Interconnection Request Receive Date | Queue Date | Application Status | Type | Fuel | Summer | Winter | County | State | Utility | Station or Transmission Line | Proposed On-line Date (as filed with IR) | Current On-line Date | Feasibility Study (IFS) | System Impact Study (SIS) | Facility Study (FAS) | Optional Study (OS) | Interconnection Agreement Status |
| 1 | 9/30/1998 | 9/30/1998 | Active | WT | W | 16.5 | | Riverside | CA | SCE | Devers-Garnet 115 kV line (Tap) | 3/1/1999 | 9/1/2007 | NA | Complete | Complete | | |
| 1A | 11/1/1999 | 11/1/1999 | Active | CC | NG | 550 | 550 | San Diego | CA | SDGE | Miguel Substation | 3/1/2002 | 1/1/2008 | N/A | Complete | Complete | | IA Executed |
| 2 | 8/10/1999 | 2/3/2000 | Active | CC | NG | 590 | | Contra Costa | CA | PGE | Contra Costa Power Plant 230 kV bus | 11/28/2007 | 11/1/2009 | N/A | Complete | Complete | | GSFA Executed |
| 3 | 4/21/2000 | 6/14/2000 | Active | CC | NG | 850 | | Riverside | CA | SCE | Devers Substation 230 kV Bus | 1/1/2004 | 5/1/2008 | NA | Complete | Re-study Complete | Complete | In Progress |
| 4 | 8/8/2000 | 8/8/2000 | Complete | CC | NG | 521 | 545 | San Diego | CA | SDGE | Palomar 230 kV | 6/1/2001 | 10/15/2005 | NA | Complete | Complete | | Executed |
| 5 | 8/9/2000 | 8/9/2000 | Withdrawn 9/14/06 | CC | NG | 900 | | San Diego | CA | SDGE | Encina Power Plant Switchyard | 6/30/2003 | 6/1/2008 | NA | Complete | In Progress | | |
| 6 | 8/23/2000 | 8/23/2000 | Active | CC | NG | 1156 | | San Joaquin | CA | PGE | Tesla Substation 230 kV Bus E | 6/1/2008 | 12/31/2010 | NA | Re-Study In Progress | Complete | | GSFA Executed |
| 7 | 8/16/2000 | 10/6/2000 | Active | CC | NG | 630 | | Los Angeles | CA | SCE | El Segundo 220 kV Bus | 8/1/2009 | 6/1/2011 | NA | Complete | Complete | Complete | Executed |
| 8 | 11/28/2000 | 11/28/2000 | Active | CC | NG | 750 | | San Diego | CA | SDGE | Sycamore Canyon Substation | 6/1/2004 | 12/31/2010 | NA | Complete | Re-Study in Progress | | In Progress |
| 9 | 12/1/2000 | 12/1/2000 | Active | CC | NG | 1200 | | San Luis Obispo | CA | PGE | Morro Bay Substation | 1/1/2008 | 1/1/2008 | NA | Complete | Complete | | GSFA Executed |
| 10 | 5/2/2001 | 5/2/2001 | Withdrawn 5/24/07 | CC | NG | 620 | | Kings | CA | PGE | Gates Substation (Arco – Gates 230-kV line) | 1/1/2009 | 7/1/2009 | NA | Complete | Complete | | GSFA Executed |
| 11 | 10/14/2002 | 10/23/2002 | Active | WT | W | 63 | | San Bernardino | CA | SCE | Mountain Pass Substation | 12/1/2004 | 3/1/2008 | NA | Complete | Complete | | IFA Executed |
| 12 | 12/16/2002 | 12/16/2002 | Complete | WT | W | 150 | | Solano | CA | PGE | New Birds Lndng Sw Stn near Contra Costa PP Sub | 10/31/2005 | 3/30/2006 | NA | Complete | Complete | | GSFA Executed |
| 13 | 1/3/2003 | 1/3/2003 | Active | H | WTR | 40 | | San Diego | CA | SDGE | Escondido | 7/1/2007 | | NA | Complete | Complete | | IFA Executed, IA Tendered |
| 14 | 1/7/2003 | 1/7/2003 | Active | CC | NG | 65 | | San Diego | CA | SDGE | Miguel-Tijuana * (65 MWs -additional capacity, 615 total MW) | 12/31/2004 | 1/1/2008 | NA | Complete | Complete | | IA Tendered |
| 15 | 12/31/2002 | 1/1/2003 | Withdrawn 7/13/07 | WT | W | 60 | | San Bernardino | CA | SCE | Mountain Pass | 9/1/2004 | 1/1/2010 | NA | Complete | Complete | | |
| 16 | 3/11/2003 | 3/11/2003 | Active | WT | W | 120 | | Santa Barbara | CA | PGE | Cabrillo | 6/1/2006 | 10/1/2008 | NA | Complete | Complete | | GSFA Executed |
| 17 | 3/18/2003 | 3/18/2003 | Active | CC | NG | 520 | | Riverside | CA | SCE | Devers-Palo Verde 500 kV line near Blythe | 1/1/2006 | 6/1/2008 | NA | Complete | Complete | | |
| 18 | 4/15/2003 | 4/15/2003 | Withdrawn 6/20/06 | WT | W | 200 | | Los Angeles | CA | SCE | Antelope | 12/31/2005 | 12/12/2007 | NA | Complete | Complete | | Tendered |
| 19 | 6/4/2003 | 6/18/2003 | Complete | WT | W | 46 | | San Diego | CA | SDGE | Crestwood | 12/31/2005 | 10/1/2005 | NA | Complete | Complete | | Executed |
| 20 | 8/19/2003 | 9/4/2003 | Active | WT | W | 300 | | Kern | CA | SCE | Antelope | 12/31/2006 | 12/31/2008 | NA | Re-Study In Progress | Complete | | |
| 21 | 10/3/2003 | 10/23/2003 | Complete | WT | W | 37.55 | | Byron | CA | PGE | Windmaster/Buena Vista Sub | 7/1/2004 | 12/29/2006 | NA | NA | NA | | Executed |
| 22 | 11/18/2003 | 11/18/2003 | Active | WT | W | 38 | | Solano | CA | PGE | New Birds Lndng Sw Sta near Contra Costa PP Sub | 6/30/2005 | 12/31/2011 | NA | Complete | Complete | | GSFA Executed |
| 23 | 11/17/2003 | 11/24/2003 | Complete | CC | NG | 72 | | San Bernardino | CA | SCE | San Bernadino 220+M127 kV | 11/1/2004 | 10/1/2005 | NA | Complete | Complete | | IFA Executed |
| 24 | 1/30/2004 | 1/30/2004 | Active | WT | W | 150 | | Solano | CA | PGE | High Winds/Contra Costa PP | 12/31/2006 | 11/28/2008 | NA | Complete | Complete | | GSFA Executed |
| 25 | 2/5/2004 | 2/5/2004 | Withdrawn 6/11/07 | WT | W | 117 | | San Diego | CA | SDGE | Crestwood | 6/6/2005 | 6/1/2007 | NA | In Progress | | | |
| 26 | 2/12/2004 | 2/12/2004 | Withdrawn 8/23/07 | WT | W | 36 | | San Diego | CA | SDGE | Crestwood | 4/1/2006 | 1/1/2008 | NA | In Progress | | | |
| 27 | 2/23/2004 | 2/23/2004 | Withdrawn 10/19/07 | CC | NG | 660 | | San Diego | CA | SDGE | 230/138/69-kV South Bay (650-MW-CC) | 1/1/2010 | 1/1/2010 | NA | Complete | Complete | | In Progress |
| 28 | 2/25/2004 | 2/25/2004 | Active | CT | NG | 145.1 | | San Francisco | CA | PGE | Potrero 115 kV Sub | 12/1/2006 | 6/1/2008 | NA | Complete | Complete | | Executed |
| 29 | 3/8/2004 | 3/29/2004 | Active | WT | W | 201 | | Lake & Sonoma | CA | PGE | Collector Substation at Geysers #17 & Fulton 230 kV line | 12/1/2006 | 7/1/2009 | NA | Complete | Re-study in Progress | | In Progress |
| 30 | 4/26/2004 | 4/26/2004 | Active | CT | NG | 48.7 | | San Francisco | CA | PGE | SF Airport Substation | 6/1/2006 | 6/1/2008 | NA | Complete | Complete | | |
| 31 | 4/12/2004 | 5/11/2004 | Active | WT | W | 201 | | Kern | CA | SCE | Monolith Substation | 12/31/2007 | 12/31/2009 | NA | In Progress | | | |
| 32 | 5/12/2004 | 5/24/2004 | Active | WT | W | 201 | | San Diego | CA | SDGE | Boulevard - Crestwood 69-kV transmission line | 9/1/2007 | 12/1/2008 | NA | In Progress | | | |
| 33 | 7/9/2004 | 7/12/2004 | Complete | ST | G | 10 | | Churchill | NV | SCE | Bishop Control Sub | 7/14/1988 | 5/31/2006 | NA | Complete | Complete | | GSFA Executed |
| 34 | 7/19/2004 | 7/19/2004 | Active | WT | W | 300 | | Kern | CA | SCE | Monolith Substation | 7/1/2007 | 12/31/2009 | NA | In Progress | | | |
| 35 | 10/25/2004 | 10/25/2004 | Withdrawn 4/12/07 | CT | NG | 49.9 | | Fresno | CA | PGE | 115-KV-Panoche-Sub | 5/31/2006 | 5/31/2006 | NA | Complete | Complete | | Tendered |
| 36 | 11/1/2004 | 11/1/2004 | Withdrawn 2/8/07 | CT | NG | 99.9 | | Stanislaus | CA | PGE | 115-kV-Tesla – Stockton-Cogen-Trans.-Line. | 5/31/2006 | 5/31/2006 | NA | Complete | Complete | | Tendered |
| 37 | 11/8/2004 | 11/8/2004 | Active | CT | NG | 74.9 | | San Joaquin | CA | PGE | Tesla Substation | 1/1/2007 | 1/1/2010 | NA | Complete | Complete | | In Progress |
| 38 | 10/19/2004 | 11/11/2004 | Active | IC | NG | 146.4 | | Humboldt | CA | PGE | Humboldt Power Plant Substation | 8/1/2008 | 6/30/2009 | NA | Complete | Complete | | In Progress |
| 39 | 11/1/2004 | 11/11/2004 | Active | WT | W | 200 | | Solano | CA | PGE | New Birds Lndng Sw Sta near Contra Costa PP Sub | 12/31/2008 | 12/22/2009 | NA | Complete | Complete | | Executed |
| 40 | 10/19/2004 | 11/11/2004 | Active | IC | NG | 118 | | Alameda | CA | PGE | Eastshore Substation | 5/1/2007 | 3/2/2009 | NA | Complete | Complete | | Executed |
| 41 | 11/9/2004 | 11/18/2004 | Active | CT | NG | 157 | | Kern | CA | SCE | Pastoria Substation | 7/31/2006 | 7/31/2006 | NA | Complete | In Progress | | |
| 42 | 11/24/2004 | 11/26/2004 | Active | CT | NG | 300 | | Fresno | CA | PGE | McCall Substation | 5/31/2007 | 3/31/2013 | NA | Complete | Complete | | Executed |
| 43 | 11/29/2004 | 11/29/2004 | Withdrawn 6/27/06 | IC | NG | 168.7 | | San Joaquin | CA | PGE | Tesla-Bellota 230-kV-line | 1/1/2008 | 10/1/2007 | NA | Complete | | | Tendered |
| 44 | 11/29/2004 | 11/29/2004 | Withdrawn 3/30/06 | IC | NG | 126.5 | | Madera | CA | PGE | Borden-Substation-230-kV-Bus | 1/1/2008 | 10/1/2007 | NA | Complete | Complete | | |
| 45 | 12/1/2004 | 12/1/2004 | Active | CT | NG | 361 | | Alameda | CA | PGE | Eastshore substation | 7/31/2006 | 6/1/2010 | NA | Complete | Re-study Complete | | Executed |
| 46 | 12/1/2004 | 12/1/2004 | Withdrawn 5/11/07 | CT | NG | 531 | | Contra-Costa | CA | PGE | Tesla-Tracy #1-230-kV-Line -- Tracy Sub | 7/31/2006 | 7/31/2008 | NA | Complete | Complete | | |
| 47 | 12/1/2004 | 12/1/2004 | Active | CT | NG | 200.6 | | Fresno | CA | PGE | Herndon - Kearney 230 kV line | 6/30/2008 | 6/30/2008 | NA | Complete | Complete | | In Progress |
| 48 | 12/1/2004 | 12/1/2004 | Withdrawn 4/6/06 | S | NG | 590 | | Contra-Costa | CA | PGE | Contra-Costa Power Plant 230-kV-Substation | 1/1/2008 | 10/1/2008 | NA | Complete | Complete | | Tendered |
| 49 | 12/14/2004 | 12/14/2004 | Active | WT | W | 100.5 | | Riverside | CA | SCE | Devers Substation | 12/1/2006 | 1/1/2008 | NA | Re-Study In Progress | On Hold | | |
| 50 | 12/21/2004 | 12/21/2004 | Active | CC | NG | 810 | | Riverside | CA | SCE | SCE Valley Substation | 5/31/2008 | 5/31/2008 | NA | Complete | | | |
| 51 | 12/20/2004 | 12/21/2004 | Complete | IC | NG | 0.55 | | Fresno | CA | PGE | 70 kV Kerman-Helm transmission line | 4/30/2005 | 5/31/2006 | NA | NA | NA | | GSFA Executed |
| 52 | 12/1/2004 | 12/21/2004 | Active | CT | NG | 401 | | Fresno | CA | PGE | Panoche Sub Station | 6/30/2008 | 8/1/2009 | NA | Re-Study Complete | Re-study Complete | | Executed |
| 53 | 12/1/2004 | 12/22/2004 | Withdrawn 7/24/06 | CT | NG | 116.8 | | Placer | CA | PGE | Pleasant Grove Sub-Station | 6/1/2008 | 6/1/2008 | NA | Complete | Complete | | Tendered |
| 54 | 11/11/2004 | 1/12/2005 | Active | CT | NG | 119.9 | | Fresno | CA | PGE | Panoche Substation | 6/1/2008 | 1/1/2009 | NA | Complete | Re-study Complete | | Tendered |
| 55 | 12/1/2004 | 1/13/2005 | Withdrawn 11/13/07 | CC | NG | 673 | | Fresno | CA | PGE | Helm-substation | 7/31/2008 | 7/31/2008 | NA | Re-Study-Complete | Tendered | | |

Notes:

This Queue posting reflects the requirements of the FERC Order 2003 for Large Generator Interconnection Procedures (LGIP).
Generator Interconnection Requests or applications Completed or Withdrawn prior to this posting are not shown.
Future withdrawals will be indicated in the Application Status as Withdrawn and their Queue position will be retired.
Weekly posting is anticipated.

Legend:

- **Generator Type Key:** IC=Internal Combustion, ST=Steam Turbine, CT=Combustion Turbine, CC=Combined Cycle, H=Hydro, WT=Wind Turbine, PV=Photovoltaic, RE=Reciprocating Engine
- **Fuel Type Key:** W=Wind, NU=Nuclear, NG=Natural Gas, O=Oil, C=Coal, B=Biomass, S=Solar, LFG=Land Fill Gas, WTR=Water, G=Geothermal, HR=Heat Recovery

| | | | | Generating Facility | | Maximum MWs | | Location | | Point of Interconnection | | | | Study Availability | | | | |
|----------------|--------------------------------------|------------|--------------------|---------------------|------|-------------|--------|-----------------|-------|--------------------------|---|--|----------------------|-------------------------|---------------------------|----------------------|---------------------|----------------------------------|
| Queue Position | Interconnection Request Receive Date | Queue Date | Application Status | Type | Fuel | Summer | Winter | County | State | Utility | Station or Transmission Line | Proposed On-line Date (as filed with IR) | Current On-line Date | Feasibility Study (IFS) | System Impact Study (SIS) | Facility Study (FAS) | Optional Study (OS) | Interconnection Agreement Status |
| 56 | 12/21/2004 | 1/25/2005 | Withdrawn 5/31/07 | CC | NG | 634 | | Clark | NV | SCE | El-Dorado 230 kV Substation | 6/1/2007 | 8/1/2009 | NA | Complete | Complete | | |
| 57 | 12/1/2004 | 2/8/2005 | Active | CC | NG | 715 | | Colusa | CA | PGE | Between Cottonwood and Vaca-Dixon | 1/1/2010 | 5/1/2010 | NA | Complete | Complete | | Executed |
| 58 | 1/25/2005 | 2/22/2005 | Active | ST | G | 62 | | Mineral | NV | SCE | Control 115kV Substation | 10/7/2007 | 2/1/2012 | NA | Complete | Complete | TAS II In Progress | Filed Unexecuted |
| 59 | 3/25/2005 | 3/28/2005 | Withdrawn 8/2/06 | CT | NG | 97.2 | | Kings | CA | PGE | Henrietta Substantion-70 kV | 1/1/2008 | 1/1/2008 | NA | Complete | Complete | | Tendered |
| 60 | 3/28/2005 | 3/28/2005 | Active | CT | NG | 94 | | Kern | CA | PGE | Kern Oil Substation 115 kV | 3/31/2007 | 3/31/2013 | NA | Complete | Complete | | Executed |
| 61 | 3/28/2005 | 3/30/2005 | Complete | ST | NG | 73.27 | | Fresno | CA | PGE | 70kV Helm-Kerman | 5/31/2006 | 5/31/2006 | NA | Complete | Complete | | Executed |
| 62 | 3/28/2005 | 4/13/2005 | Withdrawn 2/21/06 | GG | NG | 166.5 | | Humboldt | GA | PGE | Humboldt Bay-Humboldt #1-115 kV | 5/31/2007 | 6/1/2007 | NA | | Tendered | | |
| 63 | 3/25/2005 | 4/18/2005 | Withdrawn 1/4/07 | GG | NG | 158 | | Contra-Costa | GA | PGE | Contra-Costa (230-kV) | 1/1/2008 | 1/1/2008 | NA | Complete | Re-study in Progress | | Tendered |
| 64 | 3/30/2005 | 4/28/2005 | Withdrawn 1/13/06 | CT | NG | 147 | | Humboldt | CA | PGE | Humboldt Bay Power Plant Sub | 5/1/2008 | 3/1/2008 | NA | Complete | | | |
| 65 | 5/6/2005 | 5/6/2005 | Withdrawn 4/11/07 | CT | NG | 424.8 | | Los Angeles | CA | SCE | Long Beach Gen Station 220kv switchyard | 1/1/2007 | 6/1/2010 | NA | Complete | Complete | | |
| 66 | 5/6/2005 | 5/6/2005 | Active | CT | NG | 500.5 | | Los Angeles | CA | SCE | Walnut Substation | 9/1/2007 | 6/1/2008 | NA | Re-Study In Progress | Complete | | Executed |
| 67 | 3/28/2005 | 5/9/2005 | Active | CC | NG | 245 | | Alameda | CA | PGE | Eastshore Substation | 7/31/2008 | 7/31/2008 | NA | Complete | Re-study Complete | | |
| 68 | 3/30/2005 | 5/11/2005 | Active | Other | S | 850 | | San Bernadino | CA | SCE | Pisgah 230 kV Substation | 12/31/2009 | 12/31/2009 | Waived | Re-Study In Progress | In Progress | In Progress | |
| 69 | 5/6/2005 | 6/7/2005 | Withdrawn 5/17/06 | CT | NG | 527 | | San Bernardino | CA | SCE | Etiwanda-230kV Substation | 8/1/2008 | 8/1/2008 | NA | Complete | | | |
| 70 | 5/9/2005 | 6/14/2005 | Active | IC | LF | 10.7 | | San Mateo | CA | PGE | Hillsdale Junction-Half Moon Bay 60 kV line | 12/23/2005 | 9/4/2008 | NA | Complete | Complete | | GSFA Executed |
| 71 | 5/6/2005 | 6/15/2005 | Withdrawn 1/11/06 | GG | NG | 591 | | Clark | NV | SCE | Eldorado 500/230kV Substation | 2/28/2007 | 1/31/2007 | Complete | Tendered | | | |
| 72 | 4/26/2005 | 6/21/2005 | Active | H | WTR | 500 | | Riverside | CA | SCE/SDGE | Proposed Lee Lake Substation | 12/31/2008 | 12/31/2008 | NA | Complete | Complete | | In Progress |
| 73 | 6/6/2005 | 6/27/2005 | Active | WT | W | 250 | | Kern | CA | SCE | Antelope Sub | 12/31/2007 | 12/31/2008 | NA | Complete | In Progress | | |
| 74 | 7/12/2005 | 7/12/2005 | Active | WT | W | 102 | | Shasta | CA | PGE | 230kV line btn Pit#3 & Round Mtn | 12/15/2007 | 9/30/2009 | Complete | Complete | Re-study Complete | | Executed |
| 75 | 4/28/2005 | 7/15/2005 | Active | ST | B | 10.5 | | Madera | CA | PGE | Le Grand-Chowchilla 115 kV | 12/31/2005 | 1/31/2008 | NA | Complete | Complete | | GSFA Executed |
| 76 | 4/28/2005 | 7/15/2005 | Active | ST | B | 10.5 | | Merced | CA | PGE | PG&E Merced #1 70 kV circuit | 7/1/2006 | 2/29/2008 | NA | Complete | Complete | | GSFA Executed |
| 77 | 8/19/2005 | 8/22/2005 | Withdrawn 6/26/06 | WT | W | 300 | | Kern | CA | SCE/PG&E | TBD-Bakersfiled | 11/30/2007 | 11/30/2007 | Complete | Tendered | | | |
| 78 | 8/31/2005 | 8/31/2005 | Active | Other | S | 300 | | Imperial | CA | SDGE | Imperial Valley Substation | 12/31/2009 | 12/31/2009 | Waived | Complete | Complete | | In Progress |
| 79 | 5/24/2005 | 9/7/2005 | Active | WT | W | 51 | | Kern | CA | SCE | Proposed "New" Dutchwind Substation | 6/1/2006 | 5/31/2009 | Complete | Complete | Tendered | | |
| 80 | 9/12/2005 | 9/12/2005 | Active | CC | NG | 610 | | Los Angeles | CA | SCE | Laguna Bell Substation 230 kV | 7/31/2008 | 3/31/2009 | Waived | Complete | Re-study In Progress | | |
| 81 | 9/13/2005 | 9/13/2005 | Complete | ST | G | 55 | | Lake | CA | PGE | Geysers #17 - Fulton 230 kV Line | 9/1/2006 | 11/1/2007 | Waived | Complete | Complete | | Executed |
| 82 | 6/10/2005 | 9/14/2005 | Withdrawn | ST | B | 6.8 | | Humboldt | CA | PGE | Rio-Dell Substation-60 kV | 1/1/2006 | 1/1/2006 | Waived | Complete | Waived | | |
| 83 | 9/16/2005 | 9/16/2005 | Active | WT | W | 60 | | San Bernardino | CA | SCE | Lugo-Pisgah No. 2 230 kV tran line | 12/31/2008 | 12/31/2008 | Complete | In Progress | | | |
| 84 | 11/22/2005 | 12/1/2005 | Active | WT | W | 400 | | Kern | CA | SCE | Cottownwind Substation | 12/31/2009 | 12/31/2009 | NA | Complete | In Progress | | |
| 85 | 12/28/2005 | 12/28/2005 | Active | WT | W | 120 | | Kern | CA | SCE | Segment 3 230 Collector Loop Tehachapi | 12/31/2007 | 12/31/2009 | NA | Complete | | | |
| 86 | 12/30/2005 | 12/30/2005 | Withdrawn 4/7/06 | CT | NG | 49.9 | | Kern | CA | PGE | Kern-Oil-Vedder 115-kV Line | 3/1/2008 | 3/1/2008 | | | | | |
| 86A | 1/20/2006 | 1/20/2006 | Active | WT | W | 33.1 | | Kern | CA | SCE | Vincent Substation | 1/1/2008 | 10/1/2009 | NA | Complete | In Progress | | |
| 86B | 1/20/2006 | 1/20/2006 | Active | WT | W | 34 | | Kern | CA | SCE | Canwind Substation | 1/1/2008 | 10/1/2009 | NA | Complete | In Progress | | |
| 87 | 2/3/2006 | 2/3/2006 | Withdrawn 3/9/06 | ST | NU | 28 | | San Luis-Obispo | CA | PGE | Diablo Canyon Substation-Circuit Breakers-532 and-632 | 12/8/2005 | 12/8/2005 | | | | | |
| 88 | 2/10/2006 | 2/10/2006 | Active | CC | NG | 613.5 | | Los Angeles | CA | SCE | Hinson Substation 230 kV bus | 7/1/2011 | 7/1/2011 | Complete | Re-Study In Progress | | | |
| 89 | 2/13/2006 | 2/13/2006 | Active | CC | NG | 570 | | San Bernardino | CA | SCE | Caldwell-Victor line | 7/1/2009 | 4/1/2010 | Waived | Complete | In Progress | | |
| 90 | 2/16/2006 | 2/16/2006 | Active | CT | NG | 93 | | San Diego | CA | SDGE | Existing radial 69kV gen-tie line to TL6929 | 6/1/2007 | 1/1/2008 | Complete | Complete | In Progress | | |
| 91 | 2/22/2006 | 2/22/2006 | Active | WT | W | 51 | | Kern | CA | SCE | Segment 3 of Antelope Transmission Project | 3/31/2010 | 3/31/2010 | NA | Complete | | | |
| 92 | 2/24/2006 | 2/24/2006 | Active | CC | NG | 570 | | Los Angeles | CA | SCE | Vincent 230 kV | 7/1/2009 | 8/1/2010 | NA | Complete | | | |
| 93 | 3/1/2006 | 3/1/2006 | Active | WT | W | 220 | | Kern | CA | SCE | Tehachapi Conceptual Substation #1 | 12/31/2008 | 12/31/2008 | NA | Complete | In Progress | | |
| 94 | 3/1/2006 | 3/1/2006 | Active | WT | W | 180 | | Kern | CA | SCE | Tehachapi Conceptual Substation #2 | 12/31/2008 | 12/31/2008 | NA | Complete | In Progress | | |
| 95 | 3/1/2006 | 3/1/2006 | Active | WT | W | 550 | | Kern | CA | SCE | Tehachapi Conceptual Substation #1 | 12/31/2009 | 12/31/2009 | NA | Complete | In Progress | | |
| 96 | 3/1/2006 | 3/1/2006 | Active | WT | W | 600 | | Kern | CA | SCE | Tehachapi Conceptual Substation #1 | 12/31/2009 | 12/31/2009 | NA | Complete | In Progress | | |
| 97 | 3/1/2006 | 3/1/2006 | Active | WT | W | 160 | | Kern | CA | SCE | Tehachapi Conceptual Substation #5 | 12/31/2009 | 12/31/2009 | NA | Complete | In Progress | | |
| 98 | 3/9/2006 | 3/9/2006 | Complete | ST | NU | 37 | | San Luis Obispo | CA | PGE | Diablo Canyon Substation Circuit Breakers 532 and 632 | 12/8/2005 | 1/1/2006 | NA | Complete | NA | | NA |
| 99 | 3/29/2006 | 3/29/2006 | Complete | ST | NU | 45 | | San Luis Obispo | CA | PGE | Diablo Canyon Substation Circuit Breakers 542 and 642 | 6/8/2006 | 6/8/2006 | NA | Complete | NA | | NA |
| 100 | 4/5/2006 | 4/5/2006 | Active | WT | W | 120 | | Kern | CA | SCE | Vincent Substation through Sagebrush 230 kV line | 12/31/2007 | 12/31/2009 | NA | In Progress | | | |
| 101 | 4/7/2006 | 4/7/2006 | Withdrawn 10/17/06 | CT | NG | 100 | | Kern | CA | PGE | PG&E Kern-Oil-Vedder 115-kV line | 3/1/2008 | 3/1/2008 | Complete | Tendered | | | |
| 102 | 4/19/2006 | 4/19/2006 | Withdrawn 1/17/08 | WT | W | 210 | | Monterey | CA | PGE | PG&E Coburn 230-kV Sub | 11/30/2008 | 11/30/2008 | Complete | Complete | Complete | | In-Progress |
| 102A | 4/21/2006 | 4/21/2006 | Withdrawn 6/26/06 | WT | W | 100 | | Santa-Barbara | GA | PGE | PG&E #2-Cabrillo-Divide-115-kV-line | 12/31/2009 | 12/31/2009 | Tendered | | | | |
| 103 | 5/2/2006 | 5/2/2006 | Active | ST | B | 27 | | San Diego | CA | SDGE | Border Substation 69 kV | 12/1/2008 | 12/1/2008 | Complete | Complete | In Progress | | |
| 104 | 4/14/2006 | 5/3/2006 | Active | CT | NG | 304 | | Los Angeles | CA | SCE | Laguna Bell 230 kV Substation | 7/31/2009 | 7/31/2009 | Waived | Complete | In Progress | | |
| 105 | 5/4/2006 | 5/4/2006 | Withdrawn 6/29/06 | WT | W | 100 | | Humboldt | CA | PGE | Between Rio-Del Junction-and-Bridgeville | 10/30/2009 | 10/30/2009 | | | | | |
| 106 | 5/26/2006 | 5/26/2006 | Active | Other | S | 635 | | San Bernardino | CA | SCE | Mohave 500 kV Switchyard | 12/31/2009 | 12/31/2010 | Complete | | | | |
| 106A | 5/1/2006 | 6/6/2006 | Active | WT | W | 160 | | San Diego | CA | SDGE | 500 kV Imperial Valley-Miguel trans line | 6/30/2008 | 6/30/2008 | Complete | Complete | In Progress | | |
| 107 | 6/9/2006 | 6/9/2006 | Withdrawn 11/17/06 | WT | W | 128 | | Solano | CA | PGE | Brighton-Contra-Costa-115-kV | 3/1/2011 | 3/1/2011 | Complete | | | | |
| 108 | 6/9/2006 | 6/9/2006 | Active | WT | W | 128 | | Solano | CA | PGE | Lambie-Contra Costa 230 kV | 3/1/2011 | 3/1/2011 | Complete | Complete | Tendered | Complete | |
| 108A | 6/14/2006 | 6/14/2006 | Withdrawn 11/16/06 | Other | S | 300 | | San Luis-Obispo | CA | PGE | Morro-Bay-Midway 230-kV circuit | 3/1/2010 | 3/1/2010 | Tendered | | | | |
| 109 | 6/14/2006 | 6/16/2006 | Active | Other | S | 550 | | San Bernardino | CA | SCE | Pisgah Substation | 3/1/2011 | 3/1/2011 | In Progress | | | | |
| 110 | 6/14/2006 | 6/16/2006 | Active | Other | S | 1400 | | San Bernardino | CA | SCE | Pisgah Substation | 3/1/2013 | 3/1/2013 | In Progress | | | | |
| 111 | 6/23/2006 | 6/26/2006 | Active | ST | B | 20 | | Kern | CA | PGE | Tap of Chevron 70kv tran line | 8/31/2009 | 8/31/2009 | NA | Complete | Complete | | GSFA Executed |
| 112 | 6/28/2006 | 6/28/2006 | Active | WT | W | 300 | | San Diego | CA | SDGE | 500 kV Imperial Valley-Miguel trans line | 10/31/2008 | 10/31/2008 | Complete | Complete | In Progress | | |
| 113 | 6/29/2006 | 6/30/2006 | Active | WT | W | 30 | | Solano | CA | PGE | Birds Landing | 4/1/2009 | 4/1/2009 | Complete | Complete | Waived | | In Progress |
| 114 | 6/29/2006 | 7/12/2006 | Active | WT | W | 150 | | San Bernardino | CA | SCE | Victor 230 kV | 7/1/2008 | 7/1/2008 | Complete | | | | |
| 115 | 6/29/2006 | 7/12/2006 | Active | WT | W | 150 | | San Bernardino | CA | SCE | Pisgah-Lugo 230kV Trans Line | 7/1/2008 | 7/1/2008 | Complete | | | | |
| 116 | 6/29/2006 | 7/12/2006 | Active | WT | W | 50 | | San Bernardino | CA | SCE | Pisgah-Lugo Sub 230kV | 7/1/2008 | 7/1/2008 | Complete | | | | |
| 117 | 7/7/2006 | 7/29/2006 | Withdrawn 5/9/07 | WT | W | 70 | | Humboldt | CA | PGE | Bridgeville-115kV Substation- | 10/30/2009 | 10/30/2009 | Complete | In-Progress | | | |

Notes:

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Legend:

- **Generator Type Key:** IC=Internal Combustion, ST=Steam Turbine, CT=Combustion Turbine, CC=Combined Cycle, H=Hydro, WT=Wind Turbine, PV=Photovoltaic, RE=Reciprocating Engine
- **Fuel Type Key:** W=Wind, NU=Nuclear, NG=Natural Gas, O=Oil, C=Coal, B=Biomass, S=Solar, LFG=Land Fill Gas, WTR=Water, G=Geothermal, HR=Heat Recovery

| | | | | Generating Facility | | Maximum MWs | | Location | | Point of Interconnection | | | | Study Availability | | | | |
|----------------|--------------------------------------|------------|--------------------|---------------------|------|-------------|--------|--------------------------|--------|--------------------------|---|--|----------------------|-------------------------|---------------------------|----------------------|---------------------|----------------------------------|
| Queue Position | Interconnection Request Receive Date | Queue Date | Application Status | Type | Fuel | Summer | Winter | County | State | Utility | Station or Transmission Line | Proposed On-line Date (as filed with IR) | Current On-line Date | Feasibility Study (IFS) | System Impact Study (SIS) | Facility Study (FAS) | Optional Study (OS) | Interconnection Agreement Status |
| 118 | 8/2/2006 | 8/4/2006 | Withdrawn 11/28/07 | CC | NG | 550 | | Mohave | AZ | SCE | SCE Mojave Substation | 1/8/2009 | 1/8/2009 | Re-study Complete | Tendered | | | |
| 119 | 8/8/2006 | 8/8/2006 | Active | WT | W | 500 | | Kern | CA | SCE | Tehachapi Conceptual Substation #1 | 12/31/2010 | 12/31/2010 | In Progress | | | | |
| 120 | 8/9/2006 | 8/9/2006 | Active | Other | S | 1200 | | San Bernardino | CA | SCE | Mojave 500 kV Switchyard | 3/1/2011 | 3/1/2011 | In Progress | | | | |
| 121 | 8/16/2006 | 8/17/2006 | Active | CT | NG | 49 | | San Diego | CA | SDGE | SDG&E Miramar GT Substation | 3/31/2009 | 6/30/2008 | Waived | Complete | Complete | | |
| 122 | 8/16/2006 | 8/17/2006 | Withdrawn 1/16/07 | CT | NG | 99 | | Orange | CA | SDGE | SDG&E Margarita Substation | 3/31/2009 | 6/30/2008 | Waived | In Progress | | | |
| 123 | 8/16/2006 | 8/17/2006 | Withdrawn 1/16/07 | CT | NG | 99 | | San Diego | CA | SDGE | SDG&E Pala Substation | 3/31/2009 | 6/30/2008 | Waived | In Progress | | | |
| 124 | 8/22/2006 | 8/22/2006 | Active | Other | S | 600 | | Imperial | CA | SDGE | Imperial Valley Substation | 3/1/2011 | 3/1/2011 | Waived | Complete | Tendered | | |
| 125 | 8/22/2006 | 8/22/2006 | Active | Other | S | 250 | | San Bernardino | CA | SCE | Kramer-Coolwater 220kV Line #1 | 8/1/2010 | 8/1/2010 | Complete | In Progress | | | |
| 126 | 8/31/2006 | 8/31/2006 | Active | WT | W | 1500 | | Clark | NV | SCE | Eldorado Substation | 12/31/2011 | 12/31/2011 | Complete | In Progress | | | |
| 127 | 8/22/2006 | 9/1/2006 | Withdrawn 7/11/07 | Other | HR | 27.2 | | Contra Costa | CA | PG&E | 115kV Oleum Switchyard | 8/1/2008 | 8/1/2008 | Waived | Complete | Tendered | | |
| 128 | 9/1/2006 | 9/1/2006 | Active | CT | NG | 565 | 600 | Fresno | CA | PGE | McCall Substation | 12/1/2010 | 12/1/2010 | Complete | Complete | In Progress | | |
| 129 | 9/13/2006 | 9/13/2006 | Withdrawn 10/24/06 | WT | W | 400 | | San Bernardino | CA | SCE | Pisgah 230kV Substation | 3/1/2010 | 3/1/2010 | | | | | |
| 130 | 9/13/2006 | 9/13/2006 | Active | Other | S | 565 | | San Bernardino | CA | SCE | Mohave Generating Station | 12/31/2010 | 12/31/2010 | In Progress | | | | |
| 131 | 9/25/2006 | 9/25/2006 | Active | ST | S | 100 | | San Bernardino | CA | SCE | Loop new sub connecting to Eldorado-Mtn Pass 115kV line | 6/30/2010 | 6/30/2010 | Complete | In Progress | | | |
| 132 | 9/27/2006 | 9/27/2006 | Active | WT | W | 297 | | Kern | CA | SCE | SCE 230kV Conceptual Substation #2 | 12/31/2009 | 12/31/2009 | In Progress | | | | |
| 133 | 10/3/2006 | 10/3/2006 | Withdrawn 12/21/06 | WT | W | 140 | | San Bernardino | CA | SCE | Pisgah-Lugo 230kV | 3/1/2010 | 3/1/2010 | Tendered | | | | |
| 134 | 10/9/2006 | 10/9/2006 | Withdrawn 1/31/07 | CT | NG | 200 | | Kern | CA | SCE | Pastoria Substation | 5/31/2010 | 5/31/2010 | | | | | |
| 135 | 10/10/2006 | 10/10/2006 | Active | WT | W | 60 | | San Bernardino | CA | SCE | Lugo-Pisgah 230kV Transmission Line | 9/15/2008 | 9/15/2008 | Complete | In Progress | | | |
| 136 | 10/16/2006 | 10/16/2006 | Active | CT | NG | 300 | | San Bernardino | CA | SCE | Etiwanda 230kV Substation | 1/1/2010 | 1/1/2010 | Waived | Complete | In Progress | | |
| 137 | 10/17/2006 | 10/17/2006 | Active | CT | NG | 300 | | San Diego | CA | SDGE | Encina Plant 230kV bus | 8/1/2008 | 8/1/2008 | Waived | Complete | In Progress | | |
| 138 | 10/23/2006 | 10/23/2006 | Active | WT | W | 150 | | Riverside | CA | SCE | Devers-Vista 230kV #1 | 12/31/2008 | 12/31/2008 | Waived | Complete | | | |
| 139 | 10/24/2006 | 10/24/2006 | Active | CC | NG | 698 | | San Bernardino | CA | SCE | SCE Rancho Vista 500kV Sub | 6/1/2010 | 6/1/2010 | Waived | Complete | In Progress | | |
| 140 | 10/31/2006 | 10/31/2006 | Withdrawn 2/26/07 | ST | G | 75 | | Inyo | CA | SCE | Coso-Kramer 230 kV | 8/18/2011 | 8/18/2011 | Tendered | | | | |
| 141 | 11/3/2006 | 11/3/2006 | Withdrawn 8/24/07 | CT | NG | 504 | | San Bernardino | CA | SCE | SCE Rancho Vista 500kV Sub | 6/1/2010 | 6/1/2010 | Waived | Complete | Tendered | | |
| 142 | 11/6/2006 | 11/6/2006 | Active | ST | S | 80 | | San Bernardino | CA | SCE | Kramer Substation | 12/31/2009 | 12/31/2009 | Complete | Tendered | | | |
| 143 | 11/6/2006 | 11/6/2006 | Active | ST | S | 80 | | San Bernardino | CA | SCE | Kramer Substation | 12/31/2009 | 12/31/2009 | Complete | | | | |
| 144 | 11/6/2006 | 11/6/2006 | Active | ST | S | 320 | | San Bernardino | CA | SCE | Kramer Substation | 12/31/2009 | 12/31/2009 | In Progress | | | | |
| 145 | 11/8/2006 | 11/8/2006 | Active | CC | HR | 591 | | Clark | NV | SCE | Eldorado 500 kV Substation | 6/1/2010 | 6/1/2010 | Complete | In Progress | | | |
| 146 | 11/16/2006 | 11/16/2006 | Active | PV | S | 150 | | Riverside | CA | SCE | Eagle Mountain Substation | 12/1/2008 | 12/1/2008 | Complete | In Progress | | | |
| 147 | 11/16/2006 | 11/16/2006 | Active | PV | S | 400 | | Riverside | CA | SCE | Eagle Mountain Substation | 2/1/2010 | 2/1/2010 | Complete | In Progress | | | |
| 148 | 11/16/2006 | 11/16/2006 | Withdrawn 2/1/07 | ST | G | 90 | | Churchill | NV | SCE | Oxbow 230kV Substation | 10/1/2011 | 10/1/2011 | | | | | |
| 149 | 11/16/2006 | 11/16/2006 | Active | WT | W | 362 | | Kern | CA | SCE | SCE Highwind Sub #2 (proposed) 230 kV | 12/31/2009 | 12/31/2009 | In Progress | | | | |
| 150 | 11/16/2006 | 11/16/2006 | Active | CT | NG | 43 | | San Diego | CA | SDGE | Border Substation | 5/31/2008 | 5/31/2008 | Complete | Complete | Tendered | | |
| 151 | 11/17/2006 | 11/17/2006 | Withdrawn 12/11/06 | CT | NG | 510 | | San Bernardino | CA | SCE | Chino Substation 230kV Line | 5/1/2011 | 5/1/2011 | | | | | |
| 152 | 11/22/2006 | 11/22/2006 | Active | WT | W | 105 | | Santa Barbara | CA | PGE | No. 1 & No. 2 Mesa-Divide 115kV Lines | 12/31/2009 | 12/31/2009 | Complete | In Progress | | | |
| 153 | 11/22/2006 | 11/22/2006 | Active | WT | W | 100 | | Kern | CA | SCE | 66kV Antelope-Neenach-Bailey line | 5/30/2008 | 5/30/2008 | In Progress | | | | |
| 154 | 11/28/2006 | 11/30/2006 | Active | ST | S | 500 | | Kern | CA | SCE | Kramer 230 kV Substion | 12/31/2009 | 12/31/2012 | Complete | | | | |
| 155 | 12/1/2006 | 12/1/2006 | Active | CT | NG | 300 | | Alameda | CA | PGE | Oakland C 115kV substation | 5/31/2010 | 5/31/2010 | Complete | In Progress | | | |
| 156 | 12/5/2006 | 12/5/2006 | Active | WT | W | 201 | | San Bernardino | CA | SCE | Lugo-Pisgah 230 kV circuit #1 | 3/1/2009 | 3/1/2009 | In Progress | | | | |
| 157 | 12/15/2006 | 12/15/2006 | Active | WT | W | 100 | | Kern | CA | SCE | 66kV Rosamond-Antelope line | 5/30/2008 | 5/30/2008 | In Progress | | | | |
| 158 | 12/15/2006 | 12/15/2006 | Active | WT | W | 100 | | Kern | CA | SCE | 66kV Rosamond-Delsur line | 5/30/2008 | 5/30/2008 | In Progress | | | | |
| 159 | 12/15/2006 | 12/15/2006 | Active | WT | W | 100 | | Kern | CA | SCE | 66kV Antelope-Neenach-Bailey line | 5/30/2008 | 5/30/2008 | In Progress | | | | |
| 159A | 12/6/2006 | 12/22/2006 | Active | WT | W | 400 | | La Rumorosa, Baja CA | Mexico | SDGE | 500kV Imperial Valley-Miguel transmission line | 6/1/2009 | 6/1/2009 | Complete | In Progress | | | |
| 160 | 12/2/2006 | 12/29/2006 | Withdrawn 9/17/07 | ST | S | 220 | | San Bernardino | CA | SCE | Kramer | 1/1/2009 | 1/1/2009 | In Progress | | | | |
| 161 | 12/27/2006 | 1/4/2007 | Active | CT | NG | 202 | | Los Angeles | CA | SCE | Harbor Cogen | 5/1/2009 | 5/1/2010 | Waived | Complete | In Progress | | |
| 162 | 11/16/2006 | 1/5/2007 | Active | ST | S | 114 | | San Bernardino | CA | SCE | Loop new sub connecting Eldorado-Mtn Pass 115kV line | 6/30/2010 | 6/30/2010 | Waived | In Progress | | | |
| 163 | 1/9/2007 | 1/9/2007 | Active | PV | S | 300 | | San Bernardino | CA | SCE | Mountain Pass Substation | 12/31/2010 | 12/31/2010 | In Progress | | | | |
| 164 | 1/12/2007 | 1/12/2007 | Active | WT | W | 1000 | | La Rumorosa, Baja CA | Mexico | SDGE | Imperial Valley 230kV switchyard | 10/1/2010 | 10/1/2010 | In Progress | | | | |
| 165 | 1/16/2007 | 1/16/2007 | Active | ST | S | 400 | | San Bernardino | CA | SCE | Pisgah 230kV Substation bus | 6/30/2011 | 6/30/2011 | In Progress | | | | |
| 166 | 1/23/2007 | 1/23/2007 | Active | PV | S | 210 | | San Luis Obispo | CA | PGE | Morrow Bay-Midway 230kV line | 12/31/2010 | 12/31/2010 | Complete | In Progress | | | |
| 167 | 1/25/2007 | 1/25/2007 | Withdrawn 5/16/07 | CC | NG | 700 | | Riverside | CA | SCE | 500kV line to Midpoint Switching Station | 6/1/2012 | 6/1/2012 | Tendered | | | | |
| 168 | 2/2/2007 | 2/2/2007 | Active | WT | W | 1000 | | La Rumorosa, Baja CA | Mexico | SDGE | Imperial Valley 500kV bus | 12/31/2011 | 12/31/2011 | In Progress | | | | |
| 169 | 2/2/2007 | 2/2/2007 | Active | ST | S | 211.6 | | Imperial | CA | SDGE | Imperial Valley 230kV bus | 12/31/2011 | 12/31/2011 | In Progress | | | | |
| 170 | 2/2/2007 | 2/2/2007 | Active | ST | S | 500 | | Kern | CA | SCE | Substation 5 (aka Whirlwind) | 12/31/2011 | 12/31/2011 | In Progress | | | | |
| 171 | 2/9/2007 | 2/9/2007 | Active | WT | W | 500 | | Solano | CA | PGE | Vaca-Tesla 500kV line | 12/31/2011 | 12/31/2011 | In Progress | | | | |
| 172 | 2/8/2007 | 2/15/2007 | Active | CC | NG | 508 | | San Joaquin | CA | PGE | Tesla-Bellota 230kV lines | 5/15/2011 | 5/15/2011 | Complete | In Progress | | | |
| 173 | 2/16/2007 | 2/16/2007 | Active | CT | NG | 49.9 | | San Diego | CA | SDGE | Pala 69kV Substation | 5/1/2008 | 5/1/2008 | Waived | Complete | In Progress | | |
| 174 | 2/16/2007 | 2/16/2007 | Withdrawn 6/12/07 | WT | W | 30 | | Riverside | CA | SCE | Devers-Venwind 115kV line | 12/1/2008 | 12/1/2008 | Tendered | | | | |
| 175 | 2/21/2007 | 2/21/2007 | Active | WT | W | 500 | | Kern | CA | SCE | SCE Proposed Whirlwind 230kV Substation | 9/30/2008 | 9/30/2008 | In Progress | | | | |
| 176 | 2/23/2007 | 2/23/2007 | Active | CT | NG | 49.9 | | San Diego | CA | SDGE | Margarita 138kV Substation | 5/1/2008 | 5/1/2008 | Waived | Complete | Complete | | |
| 177 | 2/27/2007 | 2/28/2007 | Active | WT | W | 100 | | Contra Costa | CA | PGE | Bahia – Moraga 230 kV Line | 12/31/2011 | 12/31/2011 | Complete | In Progress | | | |
| 178 | 2/27/2007 | 2/28/2007 | Withdrawn 11/19/07 | WT | W | 100 | | Merced | CA | PGE | Los Banos 230kV bus near Pacheco Pass | 12/31/2011 | 12/31/2011 | Complete | In Progress | | | |
| 178A | 2/27/2007 | 2/28/2007 | Active | WT | W | 500 | | Mexicali/Ensenada/Tecate | Mexico | SDGE | Miguel 230kV Bus | 6/15/2010 | 6/15/2010 | In Progress | | | | |
| 178B | 2/27/2007 | 2/28/2007 | Active | WT | W | 1000 | | Mexicali/Ensenada/Tecate | Mexico | SDGE | Imperial Valley 230kV Substation | 6/15/2010 | 6/15/2010 | In Progress | | | | |
| 179 | 2/15/2007 | 3/1/2007 | Active | ST | S | 300 | | San Bernardino | CA | SCE | Julian Hinds 230kV Substation | 12/31/2010 | 12/31/2010 | In Progress | | | | |
| 180 | 3/2/2007 | 3/2/2007 | Active | CC | NG | 564 | | San Bernardino | CA | SCE | New 230kV Switchyard on the Mira Loma-Vista #2 line | 5/1/2011 | 5/1/2011 | In Progress | | | | |

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- **Generator Type Key:** IC=Internal Combustion, ST=Steam Turbine, CT=Combustion Turbine, CC=Combined Cycle, H=Hydro, WT=Wind Turbine, PV=Photovoltaic, RE=Reciprocating Engine
- **Fuel Type Key:** W=Wind, NU=Nuclear, NG=Natural Gas, O=Oil, C=Coal, B=Biomass, S=Solar, LFG=Land Fill Gas, WTR=Water, G=Geothermal, HR=Heat Recovery

| | | | | Generating Facility | | Maximum MWs | | Location | | Point of Interconnection | | | | Study Availability | | | | |
|----------------|--------------------------------------|------------|--------------------|---------------------|------|-------------|--------|----------------------|--------|--------------------------|---|--|----------------------|-------------------------|---------------------------|----------------------|---------------------|----------------------------------|
| Queue Position | Interconnection Request Receive Date | Queue Date | Application Status | Type | Fuel | Summer | Winter | County | State | Utility | Station or Transmission Line | Proposed On-line Date (as filed with IR) | Current On-line Date | Feasibility Study (IFS) | System Impact Study (SIS) | Facility Study (FAS) | Optional Study (OS) | Interconnection Agreement Status |
| 181 | 3/2/2007 | 3/2/2007 | Active | CT | NG | 400 | | San Bernardino | CA | SCE | New 230kV switchyard on the Chino-Serrano line | 3/1/2010 | 3/1/2010 | In Progress | | | | |
| 182 | 3/5/2007 | 3/5/2007 | Active | PV | S | 500 | | Kern | CA | SCE | Tehachapi Conceptual Substation | 12/31/2010 | 12/31/2010 | In Progress | | | | |
| 183 | 3/5/2007 | 3/5/2007 | Active | WT | W | 300 | | La Rumorosa, Baja CA | Mexico | SDGE | 500kV Imperial Valley-Miguel transmission line | 11/1/2009 | 11/1/2009 | In Progress | | | | |
| 184 | 3/5/2007 | 3/5/2007 | Active | ST | G | 35 | | Sonoma | CA | PGE | Geysers #3 – Cloverdale 115 kV Line | 1/1/2010 | 1/1/2010 | Complete | In Progress | | | |
| 185 | 3/6/2007 | 3/6/2007 | Active | ST | G | 150 | | Mineral | NV | SCE | Bishop, CA Control Sub | 8/1/2011 | 1/1/2011 | Waived | In Progress | | | |
| 186 | 3/7/2007 | 3/7/2007 | Withdrawn 11/28/07 | CT | NG | 211 | | San Joaquin | CA | PGE | Stockton/A*-Lockeford-Bellota 115kV #1 lines & Tesla-Tra | 12/31/2009 | 12/31/2009 | Complete | | | | |
| 187 | 3/14/2007 | 3/14/2007 | Active | ST | G | 50 | | Sonoma | CA | PGE | Geysers-Fulton 230kV transmission line | 1/1/2011 | 1/1/2011 | Waived | Complete | Tendered | | |
| 188 | 3/23/2007 | 3/23/2007 | Active | WT | W | 200 | | Kern | CA | SCE | Windhub Substation | 12/15/2013 | 12/15/2013 | In Progress | | | | |
| 189 | 3/30/2007 | 3/30/2007 | Active | CC | NG | 280 | | San Diego | CA | SDGE | Encina 138kV Substation | 5/1/2010 | 5/1/2010 | Waived | Complete | Tendered | | |
| 190 | 3/30/2007 | 3/30/2007 | Active | CT | NG | 330 | | San Diego | CA | SDGE | Proposed Otay Mesa Energy Center 230kV Substation | 3/1/2011 | 3/1/2011 | Complete | In Progress | | | |
| 191 | 4/2/2007 | 4/2/2007 | Withdrawn 10/1/07 | CT | NG | 315 | | San Diego | CA | SDGE | Penasquitos-Old Town 230kV transmission line | 3/1/2010 | 3/1/2010 | Complete | Tendered | | | |
| 192 | 4/2/2007 | 4/2/2007 | Withdrawn 10/1/07 | CT | NG | 315 | | San Diego | CA | SDGE | San Luis Rey-Mission 230kV transmission line- | 3/1/2010 | 3/1/2010 | Complete | Tendered | | | |
| 193 | 3/19/2007 | 4/2/2007 | Active | ST | S | 500 | | Riverside | CA | SCE | Julian Hinds 230kV Substation | 12/31/2010 | 12/31/2010 | In Progress | | | | |
| 194 | 4/5/2007 | 4/5/2007 | Active | ST | S | 190 | | San Luis Obispo | CA | PGE | 230kV lines near Carrizo Plain Substation | 12/31/2010 | 12/31/2011 | Complete | In Progress | | | |
| 195 | 4/6/2007 | 4/6/2007 | Withdrawn 9/21/07 | CC | NG | 725 | | Kern | CA | SCE | Springerville-Magunden 230kV line | 1/1/2013 | 1/1/2013 | Waived | In Progress | | | |
| 196 | 4/13/2007 | 4/13/2007 | Active | CT | NG | 508 | | Madera | CA | PGE | 230kV bus at Borden Substation | 7/1/2011 | 7/1/2011 | In Progress | | | | |
| 197 | 4/16/2007 | 4/16/2007 | Withdrawn 12/3/07 | CT | NG | 315 | | San Diego | CA | SDGE | Otay Mesa 230kV switchyard | 12/1/2011 | 12/1/2011 | Complete | Tendered | | | |
| 198 | 4/18/2007 | 4/18/2007 | Withdrawn 1/11/08 | CT | NG | 400 | | San Diego | CA | SDGE | QMEC interconnection substation | 2/28/2010 | 2/28/2010 | Complete | Tendered | | | |
| 199 | 4/19/2007 | 4/19/2007 | Active | CT | NG | 50 | | San Joaquin | CA | PGE | 60kV bus at Posdef QF facility | 12/31/2009 | 12/31/2009 | Waived | In Progress | | | |
| 200 | 4/19/2007 | 4/19/2007 | Withdrawn 5/14/07 | CT | NG | 200 | | Riverside | CA | SCE | Mira-Loma Substation | 5/31/2010 | 5/31/2010 | | | | | |
| 201 | 4/19/2007 | 4/19/2007 | Active | CT | NG | 99 | | San Diego | CA | SDGE | Pala Substation | 5/31/2008 | 5/31/2008 | Waived | Complete | In Progress | | |
| 202 | 4/19/2007 | 4/19/2007 | Active | WT | W | 198.65 | | San Bernardino | CA | SCE | Kramer-Coolwater 220kV Line #1 | 11/15/2013 | 11/15/2013 | In Progress | | | | |
| 203 | 4/19/2007 | 4/19/2007 | Active | WT | W | 198.65 | | San Bernardino | CA | SCE | Coolwater-Tortilla 115kV line | 11/15/2013 | 11/15/2013 | In Progress | | | | |
| 204 | 4/19/2007 | 4/19/2007 | Active | WT | W | 149.4 | | San Bernardino | CA | SCE | Tortilla-Kramer 115 kV line | 11/15/2013 | 11/15/2013 | In Progress | | | | |
| 205 | 4/20/2007 | 4/20/2007 | Active | Other | S | 600 | | Clark | NV | SCE | EI Dorado 220kV Switchyard | 12/31/2007 | 12/31/2007 | In Progress | | | | |
| 206 | 4/23/2007 | 4/23/2007 | Withdrawn 6/20/07 | CC | S | 200 | | Los Angeles | CA | SCE | EI Segundo 230kV Switchyard | 1/30/2013 | 1/30/2013 | | | | | |
| 207 | 4/26/2007 | 4/26/2007 | Active | CC | NG | 557 | | Los Angeles | CA | SCE | Long Beach 230kV Switchyard | 2/30/2013 | 2/30/2013 | In Progress | | | | |
| 208 | 4/20/2007 | 5/3/2007 | Active | PV | S | 2 | | Alameda | CA | PGE | Tracy-Herdlyn 69kV line | 6/1/2008 | 9/1/2008 | NA | Waived | In Progress | | |
| 209 | 5/2/2007 | 5/3/2007 | Active | WT | W | 400 | | La Rumorosa, Baja CA | Mexico | SDGE | New 230/500kV substation near the 500kV IV-ML line | 12/31/2010 | 12/31/2010 | In Progress | | | | |
| 210 | 5/3/2007 | 5/3/2007 | Active | PV | S | 600 | | Riverside | CA | SCE | Eagle Mountain Substation | 12/31/2011 | 12/31/2011 | In Progress | | | | |
| 211 | 4/23/2007 | 5/4/2007 | Active | WT | W | 201 | | Lassen | CA | PGE | Caribou 230kV Substation | 10/31/2008 | 10/31/2008 | In Progress | | | | |
| 212 | 5/9/2007 | 5/9/2007 | Active | WT | W | 50 | | Humboldt | CA | PGE | Bridgeville Substation | 10/30/2010 | 10/30/2010 | Complete | In Progress | | | |
| 213 | 5/9/2007 | 5/9/2007 | Active | WT | W | 180 | | San Bernardino | CA | SCE | Coolwater 220kV bus | 11/15/2010 | 11/15/2010 | In Progress | | | | |
| 214 | 5/10/2007 | 5/10/2007 | Active | WT | W | 49.25 | | San Bernardino | CA | SCE | Coolwater-Kramer 115 kV line | 12/15/2013 | 12/15/2013 | In Progress | | | | |
| 215 | 5/21/2007 | 5/21/2007 | Active | WT | W | 420 | | La Rumorosa, Baja CA | Mexico | SDGE | Imperial Valley-Miguel 500kV | 5/1/2011 | 5/1/2011 | In Progress | | | | |
| 216 | 5/22/2007 | 5/22/2007 | Withdrawn 7/24/07 | CT | NG | 98.8 | | San Diego | CA | SDGE | Otay Mesa Energy Center | 3/31/2010 | 3/31/2010 | | | | | |
| 217 | 5/22/2007 | 5/22/2007 | Withdrawn 7/24/07 | CT | NG | 98.8 | | San Diego | CA | SDGE | San Luis Rey-Melrose 69kV | 3/31/2010 | 3/31/2010 | | | | | |
| 218 | 5/22/2007 | 5/22/2007 | Withdrawn 7/24/07 | CT | NG | 98.8 | | San Diego | CA | SDGE | Loop-Talega-Escondido 230kV line | 3/31/2010 | 3/31/2010 | | | | | |
| 219 | 5/7/2007 | 5/23/2007 | Active | CT | NG | 50 | | Riverside | CA | SCE | Midpoint switching station | 6/1/2012 | 6/1/2012 | In Progress | | | | |
| 220 | 5/23/2007 | 5/23/2007 | Active | PV | S | 450 | | San Bernardino | CA | SCE | Kramer-BLM West 220kV Line | 12/1/2011 | 12/1/2011 | In Progress | | | | |
| 221 | 5/23/2007 | 5/23/2007 | Active | PV | S | 450 | | San Bernardino | CA | SCE | Kramer-Coolwater 220kV Line #1 | 12/1/2011 | 12/1/2011 | In Progress | | | | |
| 222 | 5/23/2007 | 5/23/2007 | Active | WT | W | 100.5 | | Solano | CA | PGE | Birds Landing substation | 12/31/2010 | 12/31/2010 | In Progress | | | | |
| 223 | 5/29/2007 | 5/29/2007 | Active | WT | W | 170 | | San Bernardino | CA | SCE | Kramer-Coolwater 220kV Line #1 | 12/31/2010 | 12/31/2010 | In Progress | | | | |
| 224 | 5/23/2007 | 5/30/2007 | Withdrawn 7/23/07 | RE | NG | 99 | | San Diego | CA | SDGE | 69kV line next to Calpeak Border site | 5/1/2010 | 5/1/2010 | | | | | |
| 225 | 5/23/2007 | 6/4/2007 | Active | CC | NG | 640 | | Riverside | CA | SCE | 500kV line to the new Midpoint switching station | 6/1/2012 | 6/1/2012 | In Progress | | | | |
| 226 | 5/16/2007 | 6/5/2007 | Active | CC | NG | 620 | | San Diego | CA | SDGE | New double circuit 230kV line into Escondido Substation | 3/30/2012 | 3/30/2012 | Complete | | | | |
| 227 | 6/14/2007 | 6/14/2007 | Active | WT | W | 175 | | Marin | CA | PGE | Fulton-Ignacio 230kV #2 line | 12/31/2010 | 12/31/2010 | Complete | Tendered | | | |
| 228 | 6/20/2007 | 6/20/2007 | Withdrawn 10/22/07 | CT | NG | 630 | | Alameda | CA | PGE | Newark Substation 230kV bus | 6/1/2011 | 6/1/2011 | Tendered | | | | |
| 229 | 6/21/2007 | 6/21/2007 | Active | PV | S | 1000 | | San Bernardino | CA | SCE | Devers Substation | 12/31/2013 | 12/31/2013 | In Progress | | | | |
| 230 | 6/21/2007 | 6/21/2007 | Active | PV | S | 1000 | | San Bernardino | CA | SCE | Devers Substation | 12/31/2013 | 12/31/2013 | In Progress | | | | |
| 231 | 6/13/2007 | 6/25/2007 | Active | WT | W | 50 | | Riverside | CA | SCE | Venwind portion of Devers-Garnett-Venwind line | 12/1/2009 | 12/1/2009 | In Progress | | | | |
| 232 | 6/26/2007 | 6/26/2007 | Withdrawn 8/6/07 | RE | NG | 99 | | San Diego | CA | SDGE | Talega-Escondido 230kV line | 5/15/2010 | 5/15/2010 | | | | | |
| 233 | 6/27/2007 | 6/27/2007 | Active | ST | S | 200 | | San Bernardino | CA | SCE | New sub connecting to Mtn Pass-Wheaton 230kV line | 6/30/2012 | 6/30/2012 | Waived | In Progress | | | |
| 234 | 6/27/2007 | 6/27/2007 | Active | ST | S | 400 | | Clark | NV | SCE | New sub connecting to Mtn Pass-Wheaton 230kV line | 6/30/2013 | 6/30/2013 | In Progress | | | | |
| 235 | 6/29/2007 | 6/29/2007 | Active | CT | NG | 630 | | Contra Costa | CA | PGE | Tesla-Tracy #1 230kV line | 6/1/2011 | 6/1/2011 | In Progress | | | | |
| 236 | 6/29/2007 | 6/29/2007 | Active | CT | NG | 630 | | San Joaquin | CA | PGE | Tesla Substation 230kV bus | 6/1/2011 | 6/1/2011 | In Progress | | | | |
| 237 | 6/12/2007 | 7/2/2007 | Active | CC | NG | 634 | | Clark | NV | SCE | Eldorado 220kV switchyard | 5/1/2011 | 5/1/2011 | Waived | In Progress | | | |
| 238 | 7/11/2007 | 7/11/2007 | Active | PV | S | 45 | | San Luis Obispo | CA | PGE | Tembler-San Luis Obispo 115kV line | 12/1/2008 | 12/1/2008 | In Progress | | | | |
| 239 | 7/11/2007 | 7/11/2007 | Active | PV | S | 250 | | San Luis Obispo | CA | PGE | Midway-Morro Bay 230kV line | 12/1/2010 | 12/1/2010 | In Progress | | | | |
| 240 | 7/12/2007 | 7/12/2007 | Active | ST | S | 400 | | San Bernardino | CA | SCE | Pisgah Sub 230kV | 6/30/2014 | 6/30/2014 | In Progress | | | | |
| 241 | 7/12/2007 | 7/12/2007 | Active | ST | S | 400 | | San Bernardino | CA | SCE | Pisgah Sub 230kV | 6/30/2015 | 6/30/2015 | Tendered | | | | |
| 242 | 7/13/2007 | 7/13/2007 | Active | PV | S | 390 | | San Luis Obispo | CA | PGE | Morro Bay-Midway 230kV line | 9/1/2012 | 9/1/2012 | In Progress | | | | |
| 243 | 7/16/2007 | 7/16/2007 | Active | WT | W | 429 | | San Bernardino | CA | SCE | Pisgah 230kV Substation | 12/30/2010 | 12/30/2010 | In Progress | | | | |
| 244 | 7/16/2007 | 7/16/2007 | Active | WT | W | 120 | | Kern and Inyo | CA | SCE | Haiwee-Inyokern 115kV line | 12/15/2010 | 12/15/2010 | In Progress | | | | |
| 245 | 7/16/2007 | 7/16/2007 | Active | WT | W | 228 | | Riverside | CA | SCE | Devers-Mirage-Julian Hinds 230kV line | 12/15/2010 | 12/15/2010 | In Progress | | | | |
| 246 | 7/17/2007 | 7/17/2007 | Active | WT | W | 120 | | Kern | CA | SCE | Inyokern-Kramer 115kV line #3 | 12/15/2010 | 12/15/2010 | Tendered | | | | |
| 247 | 7/30/2007 | 7/30/2007 | Active | CC | NG | 67 | | Madera | CA | PGE | Borden Substation 230kV Bus | 7/1/2011 | 7/1/2011 | Waived | Tendered | | | |
| 248 | 7/30/2007 | 7/30/2007 | Active | CC | NG | 67 | | San Joaquin | CA | PGE | Tesla-Bellota 230kV line | 5/15/2011 | 5/15/2011 | Waived | In Progress | | | |

Notes:

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Legend:

- **Generator Type Key:** IC=Internal Combustion, ST=Steam Turbine, CT=Combustion Turbine, CC=Combined Cycle, H=Hydro, WT=Wind Turbine, PV=Photovoltaic, RE=Reciprocating Engine
- **Fuel Type Key:** W=Wind, NU=Nuclear, NG=Natural Gas, O=Oil, C=Coal, B=Biomass, S=Solar, LFG=Land Fill Gas, WTR=Water, G=Geothermal, HR=Heat Recovery

| | | | | Generating Facility | | Maximum MWs | | Location | | Point of Interconnection | | | | Study Availability | | | | |
|----------------|--------------------------------------|------------|--------------------|---------------------|------|-------------|--------|-----------------|-------|--------------------------|---|--|----------------------|-------------------------|---------------------------|----------------------|---------------------|----------------------------------|
| Queue Position | Interconnection Request Receive Date | Queue Date | Application Status | Type | Fuel | Summer | Winter | County | State | Utility | Station or Transmission Line | Proposed On-line Date (as filed with IR) | Current On-line Date | Feasibility Study (IFS) | System Impact Study (SIS) | Facility Study (FAS) | Optional Study (OS) | Interconnection Agreement Status |
| 249 | 7/30/2007 | 7/30/2007 | Active | WT | W | 200 | | Monterey | CA | PGE | Moss-Linding-Salinas-Soledad 115kV #1 and #2 lines | 2/1/2010 | 2/1/2010 | In Progress | | | | |
| 250 | 7/30/2007 | 7/30/2007 | Active | WT | W | 200 | | Lake and Colusa | CA | PGE | Redbud-Cortina 115kV line | 8/1/2009 | 8/1/2009 | Complete | Tendered | | | |
| 251 | 8/1/2007 | 8/1/2007 | Active | PV | S | 200 | | Riverside | CA | SCE | Eagle Mountain-Blythe 161kV line | 12/15/2009 | 12/15/2009 | In Progress | | | | |
| 252 | 7/10/2007 | 8/6/2007 | Active | ST | NG | 12.72 | | Los Angeles | CA | SCE | Redondo Beach Generating Station 220kV switchyard | 5/23/2007 | 5/23/2007 | Waived | In Progress | | | |
| 253 | 8/13/2007 | 8/13/2007 | Active | WT | W | 40 | | Santa Barbara | CA | PGE | Cabrillo Substation 115kV | 12/31/2011 | 12/31/2011 | In Progress | | | | |
| 254 | 8/21/2007 | 8/21/2007 | Active | CC | NG | 600 | | Kings | CA | PGE | Gates Substation 230kV bus | 6/1/2012 | 6/1/2012 | In Progress | | | | |
| 255 | 8/23/2007 | 8/23/2007 | Active | ST | S | 750 | | Kern | CA | SCE | Inyokern Substaion | 12/28/2010 | 12/28/2010 | In Progress | | | | |
| 256 | 8/23/2007 | 8/23/2007 | Withdrawn 9/18/07 | PV | S | 39 | | Fresno | CA | PGE | Mendota-Biomass-Substation | 4/15/2009 | 4/15/2009 | | | | | |
| 257 | 9/10/2007 | 9/10/2007 | Active | CC | NG | 575 | | Solano | CA | PGE | New Fairfield Substation 230kV bus | 6/1/2011 | 6/1/2011 | In Progress | | | | |
| 258 | 9/12/2007 | 9/12/2007 | Active | CC | NG | 520 | | Contra Costa | CA | PGE | Contra Costa Substation 230kV bus | 2/1/2012 | 2/1/2012 | Tendered | | | | |
| 259 | 9/12/2007 | 9/12/2007 | Active | CC | NG | 345 | | Sutter | CA | PGE | Rio Oso Substation 115kV bus | 2/1/2012 | 2/1/2012 | Tendered | | | | |
| 260 | 9/12/2007 | 9/12/2007 | Active | CC | NG | 260 | | San Joaquin | CA | PGE | Loop Gold Hill-Eight Mile Road 230kV line | 2/1/2012 | 2/1/2012 | Tendered | | | | |
| 261 | 9/28/2007 | 9/28/2007 | Active | CC | NG | 104 | | Los Angeles | CA | SCE | Hinson Substation 220kV | 10/1/2010 | 10/1/2010 | | | | | |
| 261A | 10/9/2007 | 10/9/2007 | Active | PV | S | 5 | | Fresno | CA | PGE | Mendota-San Joaquin-Helm 70kV line | 4/15/2009 | 4/15/2009 | | | | | |
| 262 | 10/10/2007 | 10/10/2007 | Active | RE | NG | 390.6 | | Solano | CA | PGE | Birds Landing Substation 230 kV Bus | 4/15/2012 | 4/15/2012 | In Progress | | | | |
| 263 | 10/10/2007 | 10/10/2007 | Active | CC | NG | 634 | | Clark | NV | SCE | Eldorado Switchyard 220kV & NCP Merchant Substation 230kV | 5/1/2011 | 5/1/2011 | Waived | Tendered | | | |
| 264 | 10/15/2007 | 10/15/2007 | Active | WT | W | 300 | | San Bernardino | CA | SCE | New substation connected to Mohave-Lugo 500kV Line | 12/30/2010 | 12/30/2010 | Tendered | | | | |
| 265 | 10/16/2007 | 10/16/2007 | Withdrawn 12/5/07 | PV | S | 25 | | Riverside | CA | SCE | Eagle Mountain-Blythe 161kV line | 12/1/2009 | 12/1/2009 | | | | | |
| 266 | 10/19/2007 | 10/19/2007 | Active | CC | NG | 325 | | Sutter | CA | PGE | Rio Oso Substation 230kV bus | 2/1/2012 | 2/1/2012 | Tendered | | | | |
| 267 | 10/23/2007 | 10/23/2007 | Active | CC | NG | 280 | | San Joaquin | CA | PGE | Gold Hill-Eight Mile 230kV lines | 4/16/2012 | 4/16/2012 | In Progress | | | | |
| 268 | 10/24/2007 | 10/24/2007 | Active | ST | NG | 145 | | San Joaquin | CA | PGE | Tesla-Manteca 115kV line via Schulte Switchyard | 4/1/2013 | 4/1/2013 | Waived | Tendered | | | |
| 269 | 10/30/2007 | 10/31/2007 | Active | RE | NG | 371.3 | | San Joaquin | CA | PGE | Tesla Substation 230kV bus | 4/15/2012 | 4/15/2012 | In Progress | | | | |
| 270 | 11/1/2007 | 11/1/2007 | Active | PV | S | 700 | | Riverside | CA | SCE | Proposed Midpoint Substation 230kV | 12/1/2011 | 12/1/2011 | | | | | |
| 271 | 11/1/2007 | 11/1/2007 | Active | PV | S | 400 | | San Bernardino | CA | SCE | Lugo-Pisgah 230kV line | 12/1/2012 | 12/1/2012 | | | | | |
| 272 | 11/1/2007 | 11/1/2007 | Active | CC/PV | NG/S | 150 | | Kings | CA | PGE | Henrietta Substation 70kV bus | 5/1/2010 | 5/1/2010 | In Progress | | | | |
| 273 | 11/1/2007 | 11/1/2007 | Active | CC/PV | NG/S | 99.9 | | Kings | CA | PGE | Hanford Switchyard 115kV bus | 5/1/2010 | 5/1/2010 | Waived | Tendered | | | |
| 274 | 11/5/2007 | 11/5/2007 | Active | CC | NG | 54 | | San Diego | CA | SDGE | Palomar Substation 230kV | 6/1/2008 | 6/1/2008 | Waived | Tendered | | | |
| 275 | 11/7/2007 | 11/7/2007 | Active | CT | NG | 630 | | Solano | CA | PGE | Loop Vaca Dixon-Peabody & Vaca Dixon-Lambie 230 kV lines | 9/1/2012 | 9/1/2012 | In Progress | | | | |
| 276 | 11/9/2007 | 11/9/2007 | Active | CC | NG | 650 | | Contra Costa | CA | PGE | Contra Costa Switchyard 230kV bus | 1/15/2012 | 1/15/2012 | Tendered | | | | |
| 277 | 11/15/2007 | 11/15/2007 | Active | WT | W | 75 | | San Bernardino | CA | SCE | Coolwater-Dunn Siding 115kV line | 11/15/2010 | 11/15/2010 | | | | | |
| 278 | 11/26/2007 | 11/26/2007 | Active | ST | S | 565 | | San Bernardino | CA | SCE | Mojave-Lugo 500kV line | 1/1/2011 | 1/1/2011 | | | | | |
| 279 | 11/30/2007 | 11/30/2007 | Active | H | WTR | 40 | | Humboldt | CA | PGE | Fairhaven Substation 60kV bus | 6/1/2012 | 6/1/2012 | Tendered | | | | |
| 280 | 11/30/2007 | 11/30/2007 | Active | H | WTR | 40 | | Mendocino | CA | PGE | Fort Bragg Substation 60kV bus | 6/1/2012 | 6/1/2012 | | | | | |
| 281 | 12/3/2007 | 12/3/2007 | Active | CC | NG | 500 | | San Joaquin | CA | PGE | Loop Tesla-Stagg and Tesla-Eight Mile 230kV lines | 12/31/2010 | 12/31/2010 | | | | | |
| 282 | 12/11/2007 | 12/12/2007 | Active | ST | B | 29 | | Madera | CA | PGE | Tap Dairyland-Mendota 115 kV line | 5/31/2008 | 12/31/2008 | | | | | |
| 283 | 12/12/2007 | 12/12/2007 | Active | ST | S/B | 106.8 | | Fresno | CA | PGE | Gates Substation 230kV bus | 3/1/2010 | 3/1/2010 | | | | | |
| 284 | 12/13/2007 | 12/13/2007 | Active | RE | NG | 115 | | Mendocino | CA | PGE | Ukiah Substation 115kV bus | 4/15/2012 | 4/15/2012 | | | | | |
| 285 | 12/13/2007 | 12/13/2007 | Active | WT | W | 150 | | San Bernardino | CA | SCE | Pisgah Substation 230kV | 12/31/2011 | 12/31/2011 | | | | | |
| 286 | 12/20/2007 | 12/20/2007 | Active | ST | S | 375 | | Imperial | CA | SDGE | Southwest Power Link 500kV line | 7/1/2011 | 7/1/2011 | | | | | |
| 287 | 12/21/2007 | 12/21/2007 | Active | ST | S | 231 | | Kern | CA | SCE | Antelope-Magunden 230kV | 4/1/2011 | 4/1/2011 | | | | | |
| 288 | 12/20/2007 | 12/21/2007 | Active | ST | S | 375 | | San Luis Obispo | CA | PGE | Morro Bay-Gates 230kV line | 7/1/2011 | 7/1/2011 | | | | | |
| 289 | 12/20/2007 | 12/21/2007 | Active | ST | S | 375 | | San Bernardino | CA | SCE | El Dorado-Ivanpah 115kV line | 7/1/2011 | 7/1/2011 | | | | | |
| 290 | 12/27/2007 | 12/27/2007 | Active | ST | S | 750 | | San Bernardino | CA | SCE | Pisgah Substation 230kV | 6/1/2015 | 6/1/2015 | | | | | |
| 291 | 12/27/2007 | 12/27/2007 | Active | ST | S | 250 | | San Bernardino | CA | SCE | Wheaton Substation | 6/1/2015 | 6/1/2015 | | | | | |
| 292 | 12/27/2007 | 12/27/2007 | Active | ST | S | 250 | | Kern | CA | SCE | SCE portion of Kramer-BLM West 230 kV line | 6/1/2014 | 6/1/2014 | | | | | |
| 293 | 1/3/2008 | 1/3/2008 | Active | RE | B | 5.2 | | Fresno | CA | PGE | Helm-Kerman 70kV line | 6/1/2009 | 6/1/2009 | | | | | |

Notes:

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**KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89**

Technical Area: Transmission System Engineering

Data Request 53:

Please provide the Facility Study Report.

Response:

The Facility Study Report is not yet available. It is not expected to be available until June 2008. A copy of the Facility Study Report will be provided when it is available.



**KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89**

Technical Area: Visual Resources

Data Request 54:

In order to allow comparison of the appearance of the two possible unit types, please provide a site plan and scaled elevation drawings from two axes of the project with GE 7FA units.

Response:

Please see Attachment Vis-1.



**KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89**

ATTACHMENT VIS-1

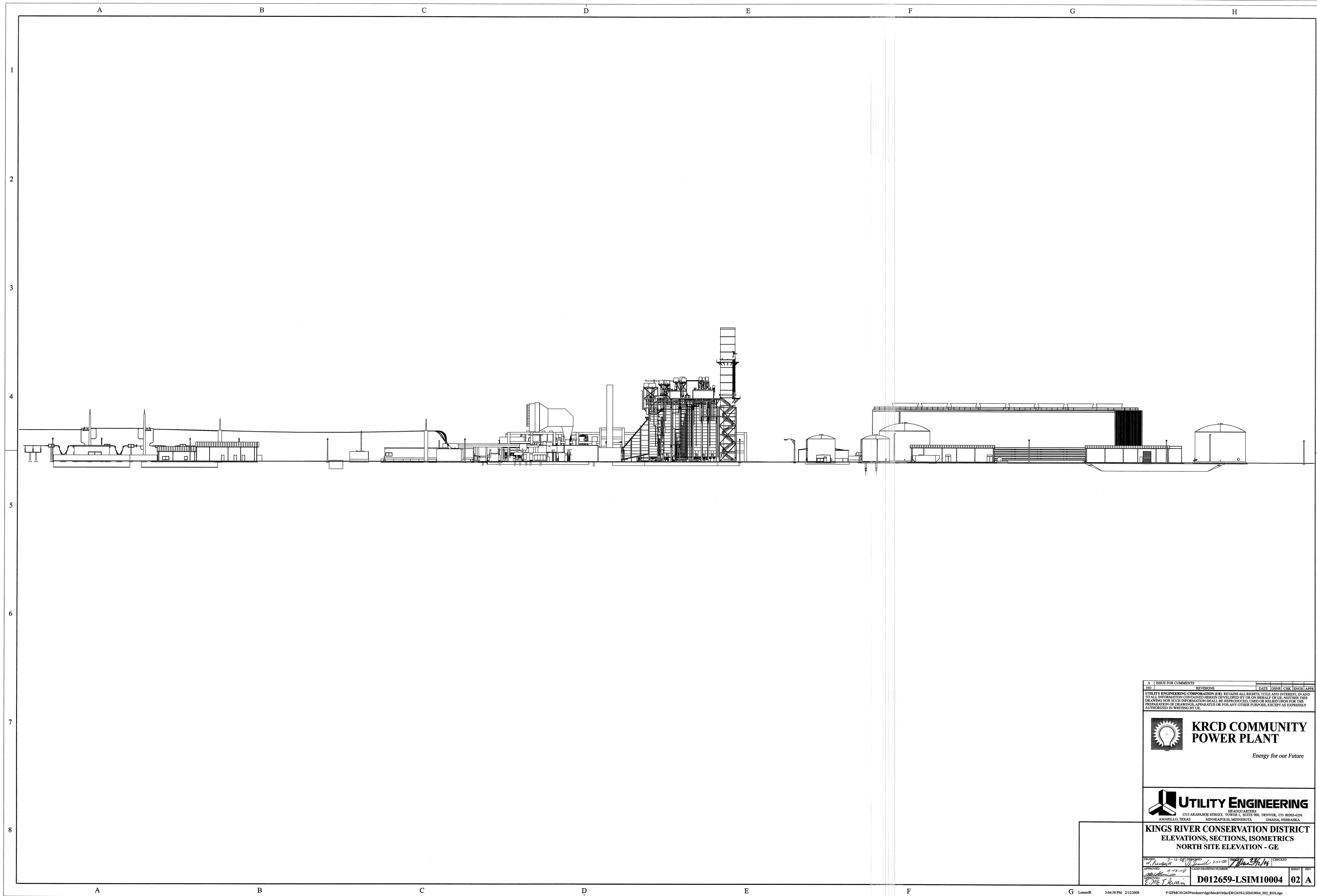
Engineering Drawings – GE 7FA Units

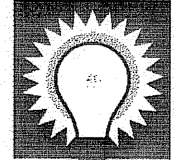



**KRCD COMMUNITY
POWER PLANT**

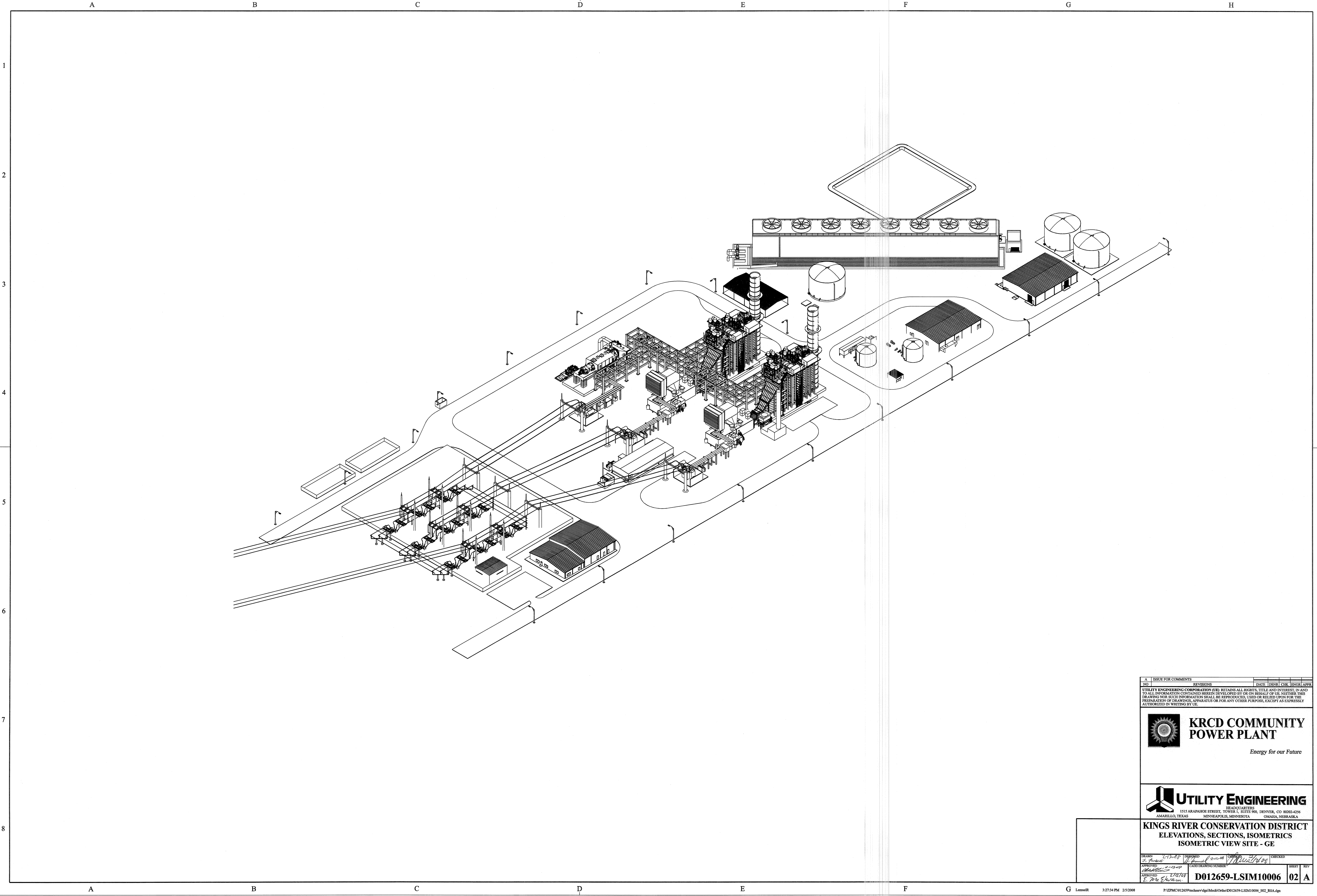
Energy for our Future

VIS-2



| A | | ISSUE FOR COMMENTS | | REVISIONS | | DATE | DSMR | CHK | ENGR | APPR |
|--|--|---|--|--|--|---|------|-----------------|------|------|
| NO. | | | | | | | | | | |
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| <div>KRCD COMMUNITY POWER PLANT <i>Energy for our Future</i></div> | | | | | | | | | | |
| <div>UTILITY ENGINEERING <small>HEADQUARTERS 1515 ARAPAHOE STREET, TOWER 1, SUITE 900, DENVER, CO 80202-4256 AMARILLO, TEXAS MINNEAPOLIS, MINNESOTA OMAHA, NEBRASKA</small></div> | | | | | | | | | | |
| KINGS RIVER CONSERVATION DISTRICT ELEVATIONS, SECTIONS, ISOMETRICS NORTH SITE ELEVATION - GE | | | | | | | | | | |
| DRAWN <i>E. M. S. Chavira</i> 2-13-08 | | DESIGNED <i>V. Powell</i> 2-13-08 | | CHECKED <i>V. Powell</i> 2-13-08 | | CADD DRAWING NUMBER D012659-LSIM10004 | | | | |
| APPROVED <i>E. M. S. Chavira</i> | | | | | | SHEET 02 | | REV A | | |

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| A | | ISSUE FOR COMMENTS | | REVISIONS | | DATE | | DSNR | CHK | ENGR | APPR |
|----|--|--------------------|--|-----------|--|------|--|------|-----|------|------|
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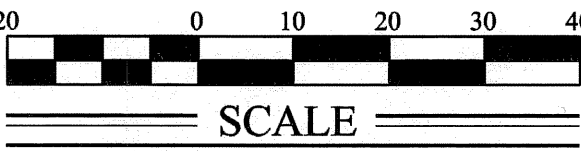
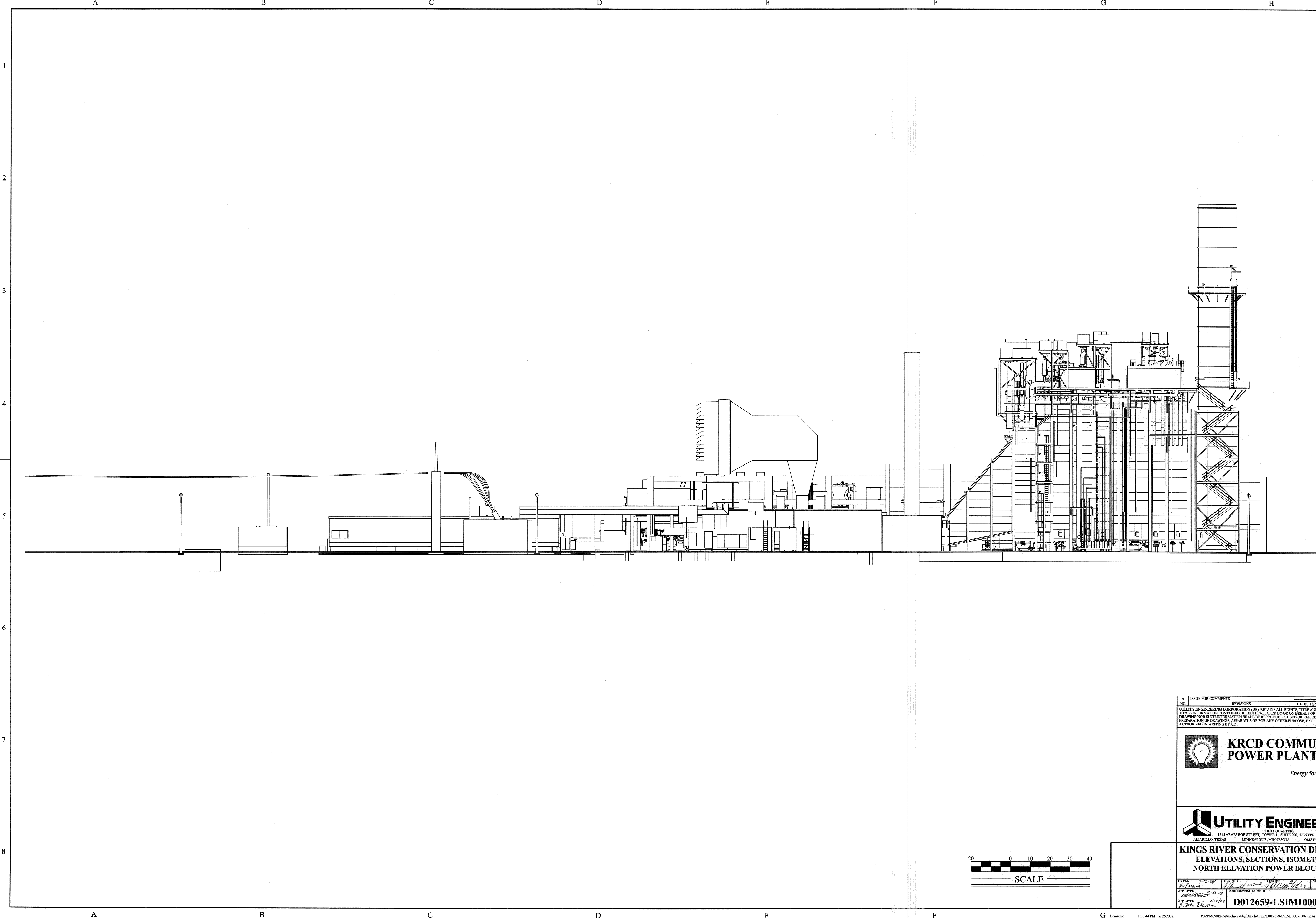
KRC COMMUNITY POWER PLANT
Energy for our Future

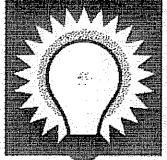



UTILITY ENGINEERING
HEADQUARTERS
1515 ARAPAHOE STREET, TOWER 1, SUITE 900, DENVER, CO 80202-4256
AMARILLO, TEXAS MINNEAPOLIS, MINNESOTA OMAHA, NEBRASKA

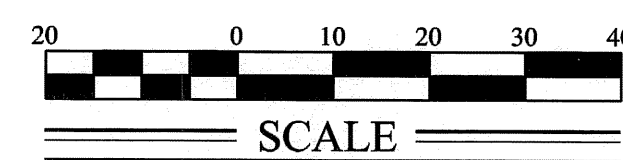
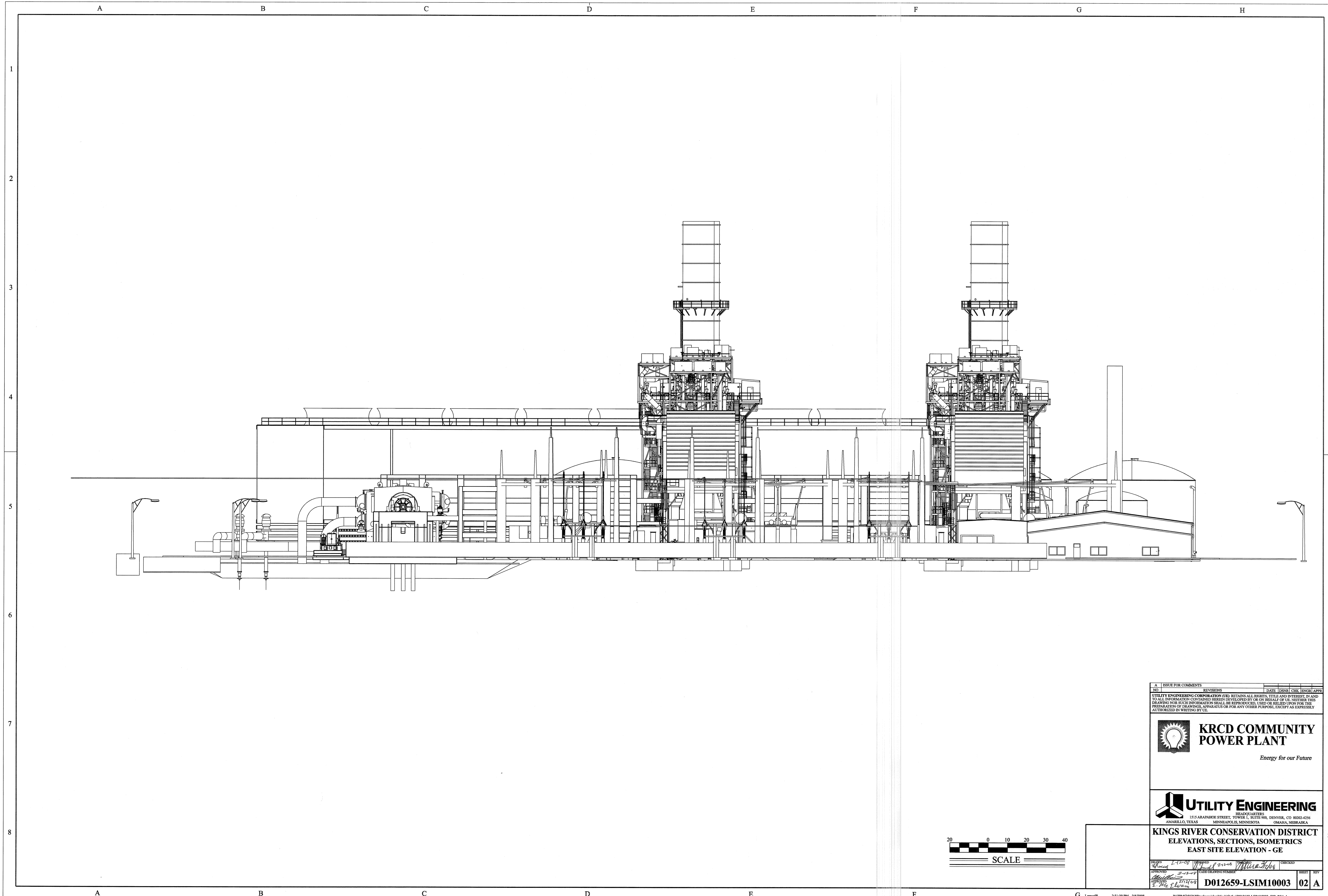
KINGS RIVER CONSERVATION DISTRICT
ELEVATIONS, SECTIONS, ISOMETRICS
ISOMETRIC VIEW SITE - GE

| | | | | | |
|-------------------------------------|--|------------------------------------|------------------------|--------------------|-----------------|
| DRAWN <i>L. J. H. 12/1/07</i> | DESIGNED <i>L. J. H. 12/1/07</i> | CHECKED <i>L. J. H. 12/1/07</i> | DATE <i>12/1/07</i> | SHEET 02 | REV A |
| APPROVED <i>L. J. H. 12/1/07</i> | PROJECT NUMBER D012659-LSIM10006 | | | | |



| A | | ISSUE FOR COMMENTS | | REVISIONS | | DATE | DSNR | CHK | ENGR | APR |
|--|--|---|--|--|--|-----------------|------|-------------|------|----------|
| NO | | | | | | | | | | |
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| <div>KRC COMMUNITY POWER PLANT <i>Energy for our Future</i></div> | | | | | | | | | | |
| <div>UTILITY ENGINEERING <small>HEADQUARTERS 1515 ARAPAHOE STREET, TOWER 1, SUITE 900, DENVER, CO 80202-4256 AMARILLO, TEXAS MINNEAPOLIS, MINNESOTA OMAHA, NEBRASKA</small></div> | | | | | | | | | | |
| KINGS RIVER CONSERVATION DISTRICT ELEVATIONS, SECTIONS, ISOMETRICS NORTH ELEVATION POWER BLOCK - GE | | | | | | | | | | |
| DRAWN <i>[Signature]</i> 2/12/08 | | DESIGNED <i>[Signature]</i> 2/12/08 | | CHECKED <i>[Signature]</i> 2/12/08 | | DATE 2/12/08 | | SHEET 02 | | REV A |
| APPROVED <i>[Signature]</i> 2/12/08 | | CARD DRAWING NUMBER D012659-LSIM10005 | | | | | | | | |

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KRCD COMMUNITY POWER PLANT
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UTILITY ENGINEERING
HEADQUARTERS
1515 ARAPAHOE STREET, TOWER 1, SUITE 300, DENVER, CO 80202-4256
AMARILLO, TEXAS MINNEAPOLIS, MINNESOTA OMAHA, NEBRASKA

KINGS RIVER CONSERVATION DISTRICT
ELEVATIONS, SECTIONS, ISOMETRICS
EAST SITE ELEVATION - GE

DESIGNED: L-12-08
DRAWN: J-12-08
CHECKED: J-12-08
APPROVED: J-12-08
DATE: 2/12/09
DRAWING NUMBER: D012659-LSM10003
SHEET: 02
REV: A

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**KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89**

Technical Area: Visual Resources

Data Request 55:

Please provide the cooling tower manufacturer and model number information and a fogging frequency curve from the cooling tower vendor, if available.

Response:

The cooling tower manufacturer for the KRCD CPP has not yet been selected and the information requested is not yet available. KRCD will update the CEC within the next 30 days to assist with cooling tower technical information.



**KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89**

Technical Area: Visual Resources

Data Request 56:

Please provide the Seasonal Annual Cooling Tower Impact (SACTI) model input/output files, including the meteorological data input files, from the modeling analysis that was summarized in Appendix 8.3-1.

Response:

Seasonal Annual Cooling Tower Impact (SACTI) model input/output files were previously provided to the CEC under separate cover.



KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89

Technical Area: Waste Management

Data Request 57:

Please provide tables that separate demolition/construction and operation that reconcile the number found in Section 1.7.9.

Response:

Below is a table that separates demolition/construction and operation that reconciles the number found in AFC Section 1.7.9.

| | |
|-----------------------------------|------------------|
| | Solid Waste |
| Construction Phase | <u>Tons</u> |
| Construction Debris | |
| Paper, Wood, Glass, Plastic | 100 |
| Concrete | 75 |
| Metal | 25 |
| Total | <u>200</u> |
| Demolition of Existing Structures | |
| Paper, Wood, Glass, Plastic | 5 |
| Concrete | 4 |
| Metal | 1 |
| Total | <u>10</u> |
| Operating Phase | <u>Tons/Year</u> |
| Non-Hazardous | |
| Zero Liquid Discharge System | 1,500 |
| General Waste | 22 |
| Hazardous | 3 |
| Total | <u>1,525</u> |



**KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89**

Technical Area: Waste Management

Data Request 58:

Please conduct an asbestos survey and provide an estimate of the amount of asbestos in demolition/construction table. Indicate the method and location of disposal.

Response:

KRCD is currently working on this data request and expects to file a response in March 2008.



KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89

Technical Area: Waste Management

Data Request 59:

Please collect and analyze soil samples around the 500-gallon tank. Provide information on the method of disposal to be used for the 500-gallon underground storage tank.

Response:

KRCD is currently working on this data request and expects to file a response in March 2008.



**KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89**

Technical Area: Waste Management

Data Request 60:

Please provide a draft engineering report per the provisions of Title 22 Code of Regulations Section 60323 that identifies:

- a. all agencies or entities that will be involved in the design, treatment, distribution, construction, operation and maintenance of the recycle facilities;
- b. description of any legal arrangements outlining authorities and responsibilities between the agencies with respect to treatments; and
- c. a description of arrangements for coordinating all reuse-related activities between the two WWTPs and the Applicant.

Response:

KRCD is currently working on this data request and expects to file a response in March 2008.



KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89

Technical Area: Waste Management

Data Request 61:

Provide a full description and schematic of the tertiary treatment train for the Title 22 RWF system; and a discussion of all previous experience in producing tertiary treated recycled water.

Response:

Description:

The Tertiary Wastewater Treatment process at the plant will receive water from the nearby Sanger and Parlier Wastewater Treatment Plants (WWTPs) via new underground pipelines. The pipelines contain secondary treated effluent from the plants and the water will be processed for make-up water through a tertiary treatment process. As seen on the preliminary schematic drawing, included as Attachment Waste-1, this process involves a set of parallel filter presses, reagent injection points and two chlorine contact tanks. The wastewater treatment plant effluent flows through a 16-inch pipeline header which splits into four pipelines going to each of the four filter presses. Three of the filters are normally on and the fourth is used for a standby unit. A polymer is fed through a half-inch line into the header before the filters for coagulation purposes. Backwash from each of the filters flows to the backwash header which then returns to Parlier WWTP. The process water then flows from each of the filters into a 16-inch header, where chlorine is injected via a half-inch feed line. Afterwards, the water splits into one of two chlorine contact tanks, each having a volume of 130,000 gallons. Based on a 4.2 million gallon per day (MGD) flow, the contact tanks are sized for 45 minutes storage/contact time each. The tertiary treated effluent is then pumped from each of the tanks for use in the power plant.

Experience:

There are several power plants throughout California and the country that use tertiary treated water for cooling tower makeup. Several are shown in Attachment Waste-2. None of the plants shown treat their recycled water on-site. Since KRCD will be treating to tertiary standards on site, KRCD will have the necessary engineering report prepared and filed with the Regional Water Quality Control Board (RWQCB). KRCD will then meet with the RWQCB and the Department of Health Services (DHS) to confirm their understanding and support of this treatment. Since none of the treated water will be used off-site, we expect that the RWQCB will issue the necessary permit in a timely fashion.

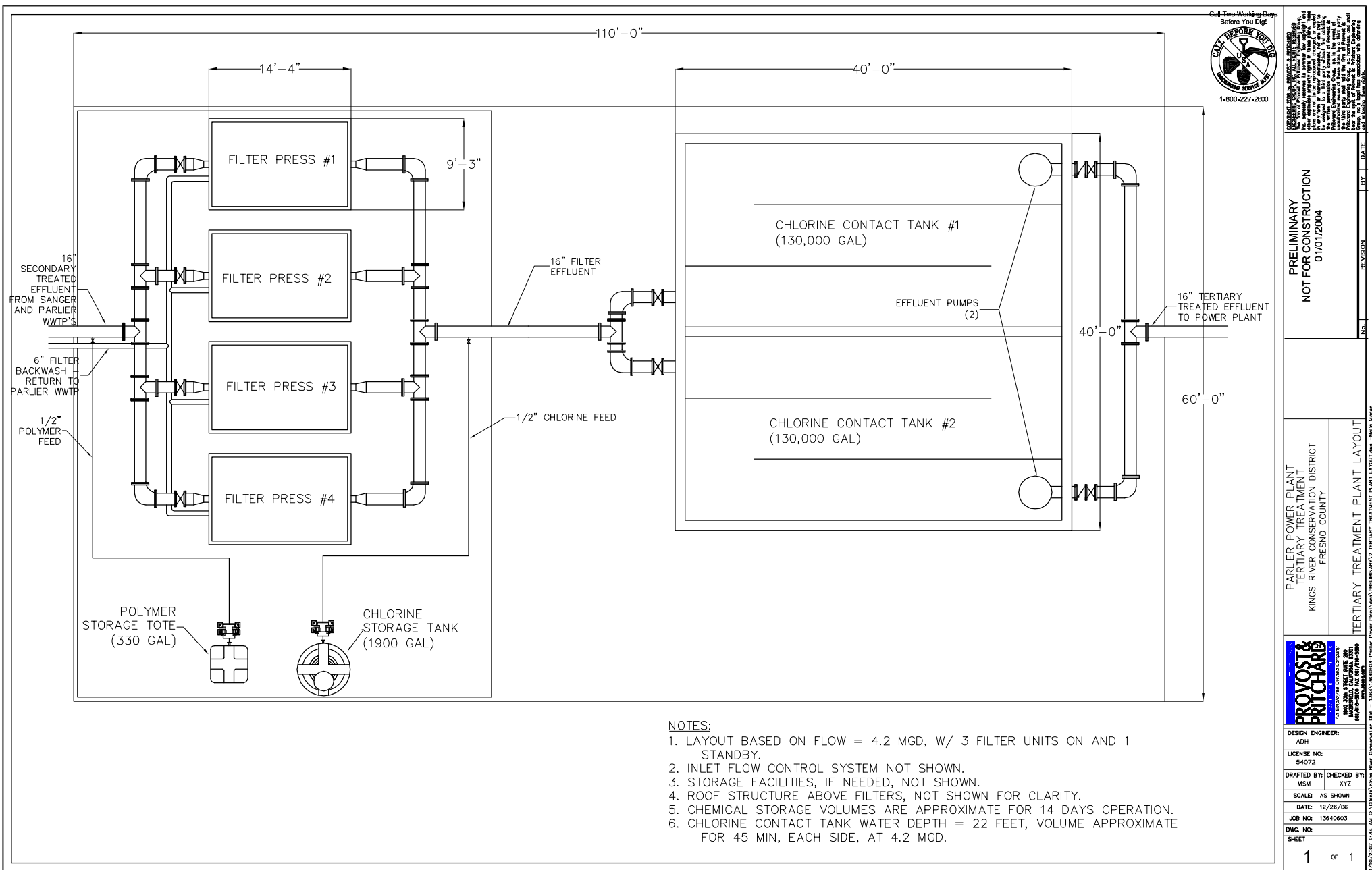


**KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89**

ATTACHMENT WASTE-1

Tertiary Treatment Plant Layout





**KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89**

ATTACHMENT WASTE-2

Power Plants Using Tertiary Treated Reclaim Water



**KRCD COMMUNITY
POWER PLANT**

Energy for our Future

WASTE-8

Power Plants Using Tertiary Treated Reclaim Water for Cooling Towers

| Water User | Location | Volume | Water Source | Location | Starting Date | Comments |
|---|-----------------|---------------------------------------|---|--------------------------|---------------|--|
| Arizona Public Service Palo Verde Nuclear Plant | Wintersburg, AZ | 55 MGD | 91st Ave. and Tolleson WWTPs | Phoenix and Tolleson, AZ | 1990 | Tertiary treatment performed at power plant; all blowdown is evaporated in ponds. |
| Arizona Public Service Redhawk Power Station | Arlington, AZ | 3.9 MGD | 91st Ave. and Tolleson WWTPs | Phoenix and Tolleson, AZ | 2001 | Water is sent via pipeline and is treated at the Palo Verde plant. It is then piped to Redhawk. |
| Southern California Public Power Authority – new Magnolia Plant | Burbank, CA | 1.0 to 1.4 MGD | Burbank WWTP | Burbank, CA | 2005 | The new Magnolia plant is a combined cycle plant. It is operated jointly by six cities. |
| Glendale Public Service – Grayson Plant | Glendale, CA | 0.3 MGD | Glendale WWTP | Glendale, CA | 1979 | Plant receives tertiary treated water. |
| Vernon Power Plant | Vernon, CA | 0.05 MGD | Oroville Region WWTP | Oroville, CA | 1989 | |
| Spadra Gas-to-Energy Plant | Pomona, CA | 0.03 MGD | Pomona WRF | Pomona, CA | 1991 | Plant burns gas from a closed landfill to generate power. |
| Puente Hills Energy Recovery Plant | Whittier, CA | 0.5 MGD | San Jose Creek WRP | near Whittier, CA | 1984 | Plant burns gas from a closed landfill to generate power. |
| Delta Energy Center | Pittsburg, CA | 7.7 MGD (total for both DDSD Centers) | Delta Diablo Sanitation District (DDSD) reclamation plant | Antioch, CA | 2001 | Tertiary treatment is performed at the reclamation plant. |
| Los Medanos Energy Center | Pittsburg, CA | 7.7 MGD (total for both DDSD Centers) | Delta Diablo Sanitation District (DDSD) reclamation plant | Antioch, CA | 2001 | Tertiary treatment is performed at the reclamation plant. |
| City of Lakeland – McIntosh Plant | Lakeland, FL | 0.7 MGD | Lakeland WWTP | Lakeland, FL | 1983 | Tertiary treatment is performed at power plant. |
| Alliant Energy | Clear Lake, IA | 1.3 MGD | Clear Lake Sanitary District | Clear Lake, IA | 2003 | Company paid for WWTP upgrades to tertiary quality. 60–80% of the water is evaporated and the blowdown is sent back to the WWTP. |
| Nevada Power Company – Clark Station | Henderson, NV | 0.15 to 2.7 MGD | Clark County Water Reclamation District | Las Vegas, NV | | The power company provides additional treatment before use. |

KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89

Technical Area: Waste Management

Data Request 62:

In addition to the Energy Commission, what local and state agencies will need to review the pipeline? Please provide the names, telephone number, and address of the agencies included in this process. What permits are required to complete the pipeline? What are the timeframes of these permits?

Response:

In addition to the CEC, the KRCD will require encroachment permits from the County of Fresno, City of Parlier and City of Sanger for installation of the proposed water pipelines. Agency contact information is as follows:

Fresno County Department of Public Works and Planning - Development Services Division
2220 Tulare Street, Suite A
Fresno, California 93721
William M. Kettler - Principal Staff Analyst
wkettler@co.fresno.ca.us
(559) 262-4242

City of Parlier
1100 East Parlier Avenue
Parlier, CA 93648
Bruce O'Neill, City Planner
b.oneal@comcast.net
(559) 256-4250

City of Sanger
1700 7th Street
Sanger, CA 93657-6513
Ralph Kachadourian, Senior Planner
RKachadourian@ci.sanger.ca.us
(559) 876-6300 Extension 1540

It will take approximately 3 months to obtain the permits required for pipeline installation in public right-of-way. All necessary permits will be obtained prior to construction.



**KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89**

Technical Area: Waste Management

Data Request 63:

But for the exclusive jurisdiction of the Energy Commission, please address what permits are required to operate an on-site tertiary treatment plant?

Response:

A Title 22 Reclaimed Water Permit from the DHS will be necessary to use reclaimed waste water in the cooling tower. Please see response to Data Request 60. The plant will not discharge to the waters of the State so a RWQCB Discharge permit is not required. We are aware of no other required permitting.



KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89

Technical Area: Waste Management

Data Request 64:

Please discuss why is the tertiary treatment plant is located on the KRCD CPP projects site instead of the Parlier or Sanger WWTPs?

Response:

The tertiary treatment facility will serve only the KRCD CPP and will be owned and operated by KRCD as a part of KRCD CPP. The Parlier and Sanger WWTP do not have tertiary level treatment and disinfection facilities. These facilities will continue to operate and dispose of secondarily treated waste water under their existing permits. Operation of the KRCD CPP will be dependent on the proper operation of the tertiary treatment and disinfection facility. KRCD CPP ownership and control of the tertiary treatment and disinfection processes will also increase operating reliability.



**KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89**

Technical Area: Waste Management

Data Request 65:

When and how will the water well and septic tank be abandoned? What agencies will be involved with the abandonment of the well and tank? What are the procedures and schedule for abandoning the well and tank?

Response:

KRCD is currently working on this data request and expects to file a response in March 2008.



**KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89**

Technical Area: Waste Management

Data Request 66:

When and how will the agricultural well be abandoned? What agencies will be involved with the abandonment of the well and tank?

Response:

KRCD is currently working on this data request and expects to file a response in March 2008.



KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89

Technical Area: Waste Management

Data Request 67:

Please provide a Phase I ESA for the 26-mile 20-inch diameter underground natural gas pipeline corridor, the approximately five mile long 18-inch underground wastewater supply pipeline routes, and the approximately five mile long 230 kV transmission interconnection route which, according to ASTM 2000 guidelines crosses the following:

- a. Property where contamination is known, or suspected at an up-gradient or adjoining site.
- b. Property, which is, or has been used for industrial/manufacturing purposes. Adjoining property with this type of usage should also be included in the investigation.
- c. Property for which any prior environmental investigation indicated the potential for contamination.
- d. Property displaying evidence of hazardous waste storage on site, whether permitted or not. For example, the existence of a former dry cleaner or gas station, which utilized underground or above ground storage tanks. Agricultural properties, where pesticides were stored/mixed and potentially released, should also be investigated.
- e. Property with visible staining.
- f. Property where contaminants exceeding drinking water standards have been detected.
- g. Property where state/federal agency notices of violation have been issued.
- h. Property on which equipment containing PCBs was stored.
- i. Property where fill dirt has been brought that has, or may have originated from a contaminated site.
- j. Property with known or suspected discharges of wastewater (other than storm-water and sanitary waste) into a storm water drain.
- k. Property with an environmental lien on it (imposed either by CERCLA 42USC / 9607(1) or similar state and local laws).
- l. Property along existing or past railroad tracks.
- m. For agricultural areas, please provide a representative sample (at least 10 percent) of all parcels randomly selected for a Determination of Pesticide Use assessment.

Response:

KRCD expects to have Phase I Environmental Site Assessments for the natural gas, water and transmission line corridors available in early April 2008.



KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89

Technical Area: Waste Management

Data Request 68:

The assessment shall identify the type of crops grown over as long a period as records indicate, the historical use and identity of pesticides (including organic and inorganic pesticides as well as herbicides), and a statement of the likelihood of finding, along the pipeline route, levels of pesticides which might present a risk to pipeline workers and/or the public.

Response:

KRCD expects to have a response available in early April 2008.



KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89

Technical Area: Waste Management

Data Request 69:

Please provide and implement a groundwater Sampling and Analysis Plan for the site. Please also discuss the remediation steps to be taken if groundwater sampling and analysis indicates contamination.

Response:

KRCD expects to have a response available in early April 2008.



KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89

Technical Area: Water and Soil Resources

Data Request 70:

Please provide a draft DESCP containing elements A through I listed below. These elements will outline site management activities and erosion/sediment control Best Management Practices (BMPs) to be implemented during site mobilization, excavation, construction, and post-construction activities. The level of detail in the draft DESCP should correspond to the current level of planning for site construction and corresponding site grading and drainage. Please provide all conceptual erosion control information for those phases of construction and post-construction that have been developed or provide a statement when such information will be available.

- a. Vicinity Map: A map(s) at a minimum scale 1"=100' shall be provided indicating the location of all Project elements and depictions of all significant geographic features including swales, storm drains, and sensitive areas.
- b. Site Delineation: All areas subject to soil disturbance, such as the construction area, laydown area, parking area, all linear facilities, and landscaping areas shall be delineated showing boundary lines and the location of all existing and proposed structures, pipelines, roads, and drainage facilities.
- c. Watercourses and Critical Areas: The DESCP shall show the location of all nearby watercourses including swales, storm drains, and drainage ditches. Indicate the proximity of those features to the project construction, laydown, and landscape areas and all transmission and pipeline construction corridors.
- d. Drainage Map: The DESCP shall provide a topographic site map(s) at a minimum scale 1"=100' showing existing, interim, and proposed drainage systems and drainage area boundaries. On the map, spot elevations are required where relatively flat conditions exist. The spot elevations and contours shall be extended off-site for a minimum distance of 100 feet in flat terrain.
- e. Drainage of Project Site Narrative: The DESCP shall include a narrative of the drainage measures to be taken to protect soil and water resources onsite and downstream. The narrative shall include a summary of the hydraulic analysis prepared by a professional engineer/erosion control specialist. The narrative shall state the watershed size in acres that was used in the calculation of drainage measures. The hydraulic analysis should be used to support the selection of BMPs and structural controls to divert off-site and on-site drainage around or through the construction and laydown areas.



KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89

- f. Clearing and Grading Plans: The DESCP shall provide a delineation of all areas to be cleared of vegetation and areas to be preserved. The plan shall provide elevations, slopes, locations, and extent of all proposed grading as shown by contours, cross-sections, or other means. The locations of any disposal areas, fills, or other special features shall also be shown. Illustrate existing and proposed topography tying in proposed contours with existing topography.
- g. Clearing and Grading Narrative: The DESCP shall include a table with the quantities of material excavated or filled during construction in all area such as the construction area, laydown area, and transmission and pipeline corridors. This table shall identify whether the materials removed and brought in were temporarily or permanently added or removed and the amount of such material brought in or removed.
- h. Best Management Practices Plan: The DESCP shall identify on the topographic site map(s) the location of the site specific BMPs to be employed during each phase of construction, initial grading, project element excavation and construction, and final grading/stabilization. BMPs shall include measures designed to prevent wind and water erosion. Treatment control BMPs used during construction should enable testing of groundwater and/or stormwater runoff prior to discharge.
- i. Best Management Practices Narrative: The DESCP shall show the location (as identified in H above), timing, and a maintenance schedule of all erosion and sediment control BMPs to be used prior to initial grading, during project excavation and construction, final grading/stabilization, and post-construction. Separate BMP implementation schedules shall be provided for each phase of construction. The maintenance schedule should include post-construction maintenance of structural control BMPs or a statement provided when such information will be available.

Response:

KRCD is currently working on the draft DESCP and expects to submit the plan in April 2008.



KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89

Technical Area: Water and Soil Resources

Data Request 71:

Please submit a jurisdictional delineation to the United States Army Corps of Engineers and a section 401 water quality certification application to the RWQCB.

Response:

Three areas in the KRCD CPP project action area were identified to have wetlands and/or waters including the Manning Recharge Basin near Selma, the Kings River near Kingsburg, and intermittent drainages in the Cross Creek area near Traver. Through the implementation of numerous preventive mitigation measures, no fill, dredging, excavations, or negative impacts will occur in those areas, except for minor impacts at the Manning Recharge Basin. At the basin, four transmission line towers will be placed in the bed of the recharge basin which will impact 0.003 acres of poor-quality wetland habitat and a temporary impact will occur to about one-acre of poor-quality wetland habitat for an equipment/tower/construction laydown area. The laydown area will be restored after installation of the towers.

In the AFC, Halstead & Associates noted that a Federal Clean Water Act 404 Permit (Nationwide Permit #12) might be required by the U. S. Army Corps of Engineers (Corps) if they have jurisdiction over such areas as the Manning Recharge Basin which is a man-made, groundwater recharge basin. Halstead & Associates has since contacted the U. S. Army Corps of Engineers (Corps) by letter on January 22, 2008 asking if a permit will be required for the project. A copy of that letter is included as Attachment Water-1. Enclosed with that letter was a copy of the Wetlands and Waters Evaluation (May 2007) report by Halstead & Associates to provide background information to the Corps. The Wetlands and Waters Evaluation is AFC Appendix 8.16-3. A formal Wetland Delineation has not been submitted to the Corps. If a Federal 404 permit is required by the Corps, then a corresponding State 401 Water Quality Certification (Waiver) would be required from the Regional Water Quality Control Board.

Halstead & Associates also wrote in the AFC that a Federal Clean Water Act 404 Permit would not be needed with the Corps for the undercrossings at the Kings River near Kingsburg and intermittent drainages in the Cross Creek area because all work would occur outside the bed, bank, and riparian habitat and that no impacts would occur to those resources. Furthermore, numerous preventive measures (such as buffer zones, fencing, restricted work areas, signage, educational program, on-site biologist, pre- and post-monitoring) were incorporated into the project to completely avoid any potential impacts.



**KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89**

Upon advice from the Corps and if required, a formal Wetland Delineation will be submitted to the Corps in spring 2008. Also if required, a Nationwide Permit #12 application would be completed and submitted to the Corps in spring 2008. Issuance of a permit would likely occur in summer or fall of 2008.



**KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89**

ATTACHMENT WATER-1

Correspondence to Corps



**KRCD COMMUNITY
POWER PLANT**

Energy for our Future

WATER-5

HALSTEAD & ASSOCIATES
Environmental / Biological Consultants

296 Burgan Avenue, Clovis, CA 93611
Office (559) 298-2334; Mobile (559) 970-2875
Fax (559) 322-0769; HalsteadEnv@aol.com

January 22, 2008

Mr. Ramon Aberasturi
U. S. Army Corps of Engineers, Sacramento District
Regulatory Branch
1325 J Street
Sacramento, CA 95814

RE: Kings River Conservation District's Community Power Plant (Fresno & Tulare Counties)
Potential Need for a Nationwide Permit #12 for the Project

Dear Ramon:

The Kings River Conservation District is proposing a 565 megawatt natural gas-fired power plant near the City of Parlier (Fresno County, California) and has filing an Application For Certification (AFC) with the California Energy Commission for permitting of the plant. Specifically, the plant will set upon a 20 acre parcel just northeast of the intersection of Bethel and Dinuba Avenues. A 15-acre parcel south of the plant site and a 60-acre parcel west of the site will be used as construction yards for the project. The project involves four basic components including the power plant site, natural gas pipeline, water pipeline, and transmission lines (see attached map). Many miles of water pipeline, transmission lines, and gas pipeline are proposed for the project. The first two structures will occur in Fresno County and the gas pipeline will interconnect with an existing gas pipeline near Visalia in Tulare County and run north to the power plant site in Fresno County.

In May 2007, we conducted reconnaissance surveys to evaluate if wetlands and waters occur on the project site and along the water, gas, and transmission line routes. Also, the field surveys were used to examine, evaluate, and determine if wetlands or waters occur on adjacent private lands and could be impacted by the project. Three areas with wetlands and waters occur along the project routes including:



- Cross Creek area south of Traver
(Section 34, Township 17S, Range 23E, Traver Quad, Tulare County)
- Kings River near Kingsburg
(Section 17, Township 16S, Range 23E, Reedley Quad, Fresno County)
- Manning Recharge Basin north of Selma
(Sec. 21, Township 15S, Range 22E, Selma Quad, Fresno County)

The Cross Creek area is annual grassland habitat that has six intermittent drainages, some of which are wetlands and some are waters. The gas pipeline will occur in the Road 60 right-of-way; however, private lands adjacent to the right-of-way have wetland ponds, vernal pool wetlands, the endangered Vernal Pool Tadpole Shrimp, Critical Habitats, and potentially other sensitive species too. The Kings River at the gas pipeline route is a waters and has wetland and riparian habitat along its banks. The Manning Recharge Basin has poor quality wetland habitat in the bed of its basin and its banks have upland habitat. The basin receives water via canals and ditches from the Kings River. The basin does not have an outlet and its waters percolate into the ground and do not flow back into other waters or wetlands.

The project has been designed to avoid and/or lessen impacts to wetlands and waters. Examples of such actions include the locating and constructing of the gas pipeline and the water pipeline in the right-of-ways of existing roads. Also, the use of Jack and Bore and Horizontal Directional Drilling techniques to install the gas pipeline underneath the Kings River and the intermittent drainages in the Cross Creek area avoids project impacts at those locales. At the Manning Recharge Basin, four H-framed transmission line towers (with a total of eight legs) will be constructed and erected inside the basin. The footprint of the towers will permanently impact approximately 0.003 acres of poor quality wetland habitat. During construction and erection of the towers, some temporary impacts will also occur to approximately one acre of poor quality wetland habitat in the basin, but that area will be restored.

As noted above and in our Wetlands and Waters Evaluation (enclosed), the KRCD will bore underneath the Kings River and intermittent drainages in the Cross Creek area. No work or impacts will occur in the bed or bank of these waters or in riparian or wetland habitat along their banks. A buffer zone of 500 feet outward on either side of the riparian habitat of the Kings River will occur. A buffer zone of 50 feet outward on either side of the intermittent drainages in the Cross Creek area will occur.

In the AFC, we noted that a Nationwide Permit #12 may be necessary due to the loss of wetland habitat in the recharge basin due to the transmission towers (0.003 acres). During recent wildlife surveys, the bottom of the basin is dry, has been disked, is poor quality wetland habitat, and provides little or no wildlife habitat. The implementation of protective measures will completely avoid impacts to the intermittent drainages, waters, and wetlands in the Cross Creek and Kings River areas.

We request that you advise us on whether a Nationwide Permit #12 permit is applicable to the transmission towers and will even be necessary due to the extremely small impact (0.003 acres). Would you please send us a letter or email concerning the need for a permit and any additional guidance. We are not asking for a Jurisdictional Determination at this time. Enclosed are some wetland data sheets for the project areas noted above.

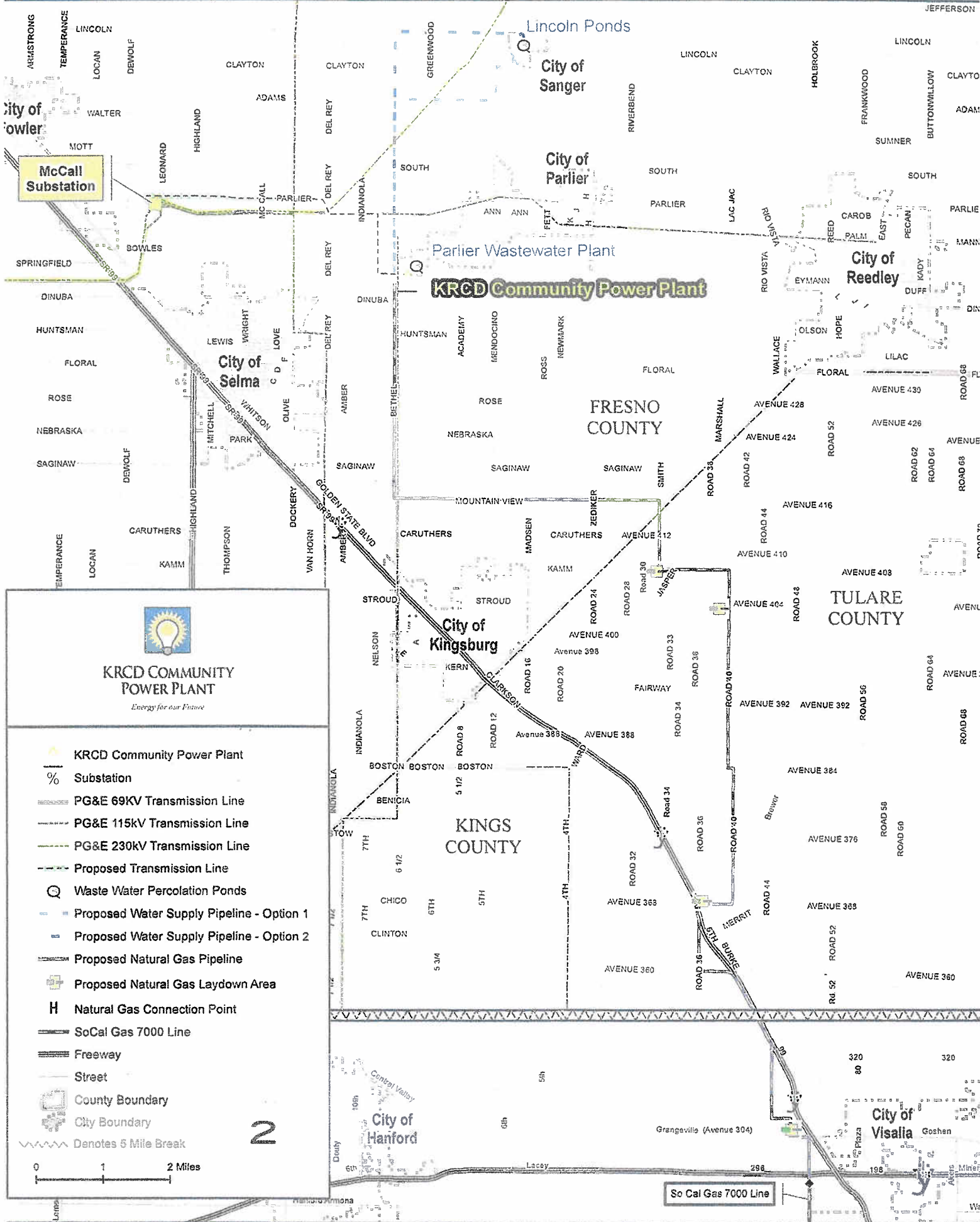
Sincerely,

Handwritten signatures of Jeffrey A. Halstead and Pamela S. Halstead. The signature of Jeffrey A. Halstead is written above the signature of Pamela S. Halstead.

Jeffrey A. & Pamela S. Halstead
Owners/Partners/Biologists

cc: Mr. Jim Richards (KRCD)
Ms. Amy Cuellar (Navigant Consulting, Inc.)

Kings River Conservation District Community Power Plant



KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89

Technical Area: Water and Soil Resources

Data Request 72:

Please discuss in detail whether a 401 certification is required. If required, please discuss compliance with the 401 certification requirement, and include a copy of the application and a schedule for completion of the certification.

Response:

If a Federal 404 Permit is required by the Corps, then a corresponding State 401 Water Quality Certification (waiver) would be required from the RWQCB. If required, the Water Quality Certification (waiver) application would be completed and submitted to the RWQCB in spring 2008. Issuance of a waiver would likely occur in summer or fall of 2008.



**KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89**

Technical Area: Water and Soil Resources

Data Request 73: No Data Request Received.

Response:



**KRCD COMMUNITY
POWER PLANT**

Energy for our Future

WATER-11

KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89

Technical Area: Water and Soil Resources

Data Request 74:

To identify the volume of wastewater supply, please provide the monthly and yearly total effluent wastewater volume from each WWTP for the last 10 years (1997 to 2007) and expected volume during the first 10 years of plant operation.

Response:

KRCD expects to have a response available in March 2008.



KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89

Technical Area: Water and Soil Resources

Data Request 75:

To identify the power plant water demand, please provide the highest daily process water demand for each month in the year.

Response:

The highest daily process water demand can be derived from the information provided in AFC Section 8.5.3.1-Water Demands. As discussed in the section, a peaking factor of 13% is applied to the daily values to determine the additional usage attributable to a day where ambient temperatures are hotter than average. A similar peaking factor is provided for monthly usage. The average and the highest daily water process water demand expected for each month in the year has been calculated based on the data in Table 8.5-3 and is included as Attachment Water-2.

The peaking factors in the referenced section are intended to quantify extreme daily or monthly conditions and are not intended to apply toward annual water usage.



**KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89**

ATTACHMENT WATER-2

Estimated Process Water Demand



Table 8.5-3
Estimated Process Water Demands
KRCD CPP

| Month | Average Demand | | | Peak Demand | | |
|----------------------|----------------|--------------------------|-------------------------------|-------------|--------------------------|-------------------------------|
| | | | | Monthly | Daily | |
| | Acre-feet | Gallons per Minute | Million Gallons Per Day | Acre-feet | Gallons per Minute | Million Gallons Per Day |
| January | 254 | 1,920 | 2.76 | 274 | 2,170 | 3.12 |
| February | 239 | 1,800 | 2.59 | 258 | 2,030 | 2.92 |
| March | 274 | 2,070 | 2.98 | 296 | 2,340 | 3.37 |
| April | 280 | 2,110 | 3.04 | 302 | 2,380 | 3.43 |
| May | 309 | 2,330 | 3.36 | 334 | 2,630 | 3.79 |
| June | 317 | 2,390 | 3.44 | 342 | 2,700 | 3.89 |
| July | 343 | 2,590 | 3.73 | 370 | 2,930 | 4.22 |
| August | 338 | 2,550 | 3.67 | 365 | 2,880 | 4.15 |
| September | 315 | 2,380 | 3.43 | 340 | 2,690 | 3.87 |
| October | 300 | 2,260 | 3.25 | 324 | 2,550 | 3.67 |
| November | 261 | 1,970 | 2.84 | 282 | 2,230 | 3.21 |
| December | 255 | 1,920 | 2.76 | 275 | 2,170 | 3.12 |
| Average | 290 | 2,190 | 3.15 | 313 | 2,470 | 3.56 |
| Total (AF/yr) | 3,485 | - | - | - | - | - |

Notes:

Values in million gallons per day assume continuous operation.

Peak monthly demand based on peaking factor of 8%.

Peak daily demand based on peaking factor of 13%.

Table revised February 11, 2008, for response to Data Request #75.

KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89

Technical Area: Water and Soil Resources

Data Request 76:

Please discuss whether there are customers, other than the proposed project, of the wastewater and their current and future wastewater requirements.

Response:

There are no current customers for wastewater streams from either the Sanger WWTP or the Parlier WWTP. The wastewater generated by the Sanger WWTP and the Parlier WWTP is secondarily treated effluent and does not meet Title 22 standards and thus is not suitable for reuse. Both WWTPs dispose of the water by ponding and subsequent percolation. The RWQCB is encouraging the Sanger WWTP and the Parlier WWTP to reduce the amount of effluent that is percolated as the effluent degrades the native groundwater. The RWQCB supports this project.



KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89

Technical Area: Water and Soil Resources

Data Request 77:

Please provide the number of days/hours and AF per year during which each WWTP experienced an interruption in wastewater discharge over past 10 years (1997 to 2007).

Response:

The rate of wastewater discharge is not affected by interruptions in WWTP operations. Due to the critical nature of WWTP operation as each city's sole method for disposal of sanitary waste, any outage is short in duration. Each WWTP has backup systems to ensure reliability of operation under adverse conditions. The City Engineer for Parlier reports that there has not been an interruption in the operation of the facility for the past 22 years. The operational experience of the Sanger WWTP is similar. If an interruption of significant duration were to occur, unprocessed wastewater is ponded for later processing and there is no overall loss the volume wastewater discharge.



KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89

Technical Area: Water and Soil Resources

Data Request 78:

Please discuss the volume of groundwater that will be required to make up for interruptions to the supply of wastewater and when peak water demand exceeds water supply.

Response:

The supply of wastewater is expected to exceed peak water demands at all times and recovery of percolated effluent is not anticipated under this scenario. Projected data for the year 2010, as provided in AFC Table 8.5-5, demonstrates the amount of wastewater projected to be available exceeds demand for all months. The KRCD CPP is expected to be operational in 2011.

With respect to interruptions to the wastewater supply, a reasonable worst case scenario is the unavailability of water from the Sanger WWTP due to problems with the pipeline or the transfer (pumping) facilities and such a problem would require two weeks to correct. (Problems with the operation of either WWTP are not expected to affect wastewater deliveries as discussed in the response to Data Request 77.) Should such a problem occur, it would result in the unavailability of 79.3 AF of water. Based on 2005 data provided in Table 8.5-6 of the AFC, the amount of percolated effluent required to make up this deficit would range from 62.3 AF to the entire 79.3 AF, depending on the time of the year and availability of excess water available from the Parlier WWTP.



**KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89**

Technical Area: Water and Soil Resources

Data Request 79:

Please provide a copy of the wastewater supply agreement with the treatment plants at Parlier and Sanger.

Response:

These agreements are currently being negotiated. Final agreements will be forwarded to the CEC upon execution.



**KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89**

Technical Area: Water and Soil Resources

Data Request 80:

Please provide a list of wells that could be affected by the project's use of groundwater.

Response:

KRCD expects to have a response available in March 2008.



KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89

Technical Area: Water and Soil Resources

Data Request 81:

Using Kings Basin Integrated Groundwater Surface Water Model, MODFLOW, or comparable model, please quantify the impact on those wells under the two scenarios listed below and identify all assumptions and data used.

- a. Supplementing the wastewater supply with pumped groundwater during times when peak demand for water from the power plant exceeds the ability of the two wastewater treatment plants to supply water to the power plant project; and
- b. During times of a short and long interruption in the supply of wastewater.

Response:

KRCD expects to have a response available in March 2008.



KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89

Technical Area: Water and Soil Resources

Data Request 82:

Please discuss in more detail the use of this tank for surplus wastewater storage when the expected volume of wastewater supply is approximately 210 AF per year less than required.

Response:

The tank is intended to store process water, not wastewater. The primary source of process water is secondarily treated wastewater that undergoes tertiary treatment at the KRCD CPP site and made compliant to Title 22 standards.

With respect to wastewater storage, each WWTP has several ponding basins at their respective sites that can be used to store a substantial amount of surplus wastewater (as discussed in the response to Data Request 84). This storage is not accounted for in the AFC as storage losses due to percolation and evaporation vary depending on a number of conditions beyond the control of the applicant and the most restrictive case was sought for analysis. Each WWTP will make efforts to store surplus wastewater for later sale to the KRCD CPP.



KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89

Technical Area: Water and Soil Resources

Data Request 83:

Please discuss the background rationale used in determining the size of the wastewater storage tank.

Response:

The tank is designed to hold approximately one-half day of the anticipated process water demand of the KRCD CPP and is intended for short term fluctuations between the plant water demand and the process water supply provided from the tertiary treatment plant located on the KRCD CPP site.



KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89

Technical Area: Water and Soil Resources

Data Request 84:

Please discuss the economic and environmental feasibility of sizing the storage tank such that the use of groundwater is avoided.

Response:

Recovery of percolated effluent through pumping is not anticipated (see response to Data Request 78). Using AFC Table 8.5-6 (based on 2005 figures) as a worst-case scenario, it is technically possible to avoid the recovery of percolated effluent if 210 AF, or 68.4 million gallons, of storage were available. A tank of this size would be extremely large and uneconomical.

Long-term storage of surplus wastewater to avoid the recovery of percolated effluent is not anticipated. According to estimated wastewater effluent projections (in AFC Table 8.5-5), the need for facilities to store surplus wastewater will diminish in 2010, prior to the anticipated completion date of the plant, as growth in population increases the amount of available wastewater. In the event that 2010 projections are not met and storage is required, the applicant will work with the Parlier and Sanger WWTPs to store surplus wastewater and minimize the amount of effluent recovered.

The applicant has previously discussed storing surplus wastewater with representatives of the Parlier and Sanger WWTP. Each WWTP, as a part of its inherit operation, will store surplus water in their respective disposal ponds. If needed, the surplus water can be retrieved and provided to the KRCD CPP. Each site can store a considerable amount of water on a short-term basis, well over the 210 AF discussed above. Of this, approximately 70 AF has been identified as being suitable for long-term storage of wastewater, and should accommodate any shortfall in 2010 effluent projections. This storage is not accounted for in the AFC as storage losses due to percolation and evaporation vary depending on a number of conditions and scenarios beyond the control of the applicant and the most restrictive case was sought for analysis.



KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89

Technical Area: Water and Soil Resources

Data Request 85:

Please provide the basis on which this information population was obtained.

Response:

The population information was obtained from engineering reports and is consistent with the similar data obtained from the California Department of Finance. See State of California, Department of Finance, E-4 Population Estimates for Cities, Counties, and the State, 2001-2007 with 2000 Benchmark, May 2007.



KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89

Technical Area: Water and Soil Resources

Data Request 86:

Did the per capita wastewater generation take into account new requirements and standards for household and industrial water conservation such as low flush toilets? If not, please include these conservation measures that can be reasonably expected over the life of the project into the wastewater volume estimates or justify their exclusion.

Response:

The per capita wastewater generation figures (cited from other reports prepared for the respective WWTPs) did not account for new household and industrial water conservation standards. It is difficult to account for conservation measures in existing households as some measures have been in effect for years and others have been voluntarily undertaken. It is also difficult to adjust for increases in the sizes of residences being built and any corresponding increase in water fixtures installed.

As of January 1, 2008, both cities, Parlier and Sanger, have adopted the 2007 California Plumbing Code. No changes in the amount of water used by each household is expected as a result of the code change. Therefore, it is expected that the per capita water usage and wastewater generation will remain constant until the next building code change expected on January 1, 2011. Further, any changes made would likely affect only new residences and not the community as a whole.

It is difficult to quantify the amount of water that will be conserved by households in both communities over the life of the project. Assuming a planned life of 30 years (as provided in AFC Section 3.0), the estimated amount of wastewater generated in the year 2040 (per AFC Table 8.5-5) would be 10,051 acre-feet per year for both communities. If households and commercial users in both communities are able to reduce their current consumption by 50%, then only 5,025 acre-feet per year would be available. This would represent 144% of the water required for the KRCD CPP and would easily meet the demand of the KRCD CPP.



**KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89**

Technical Area: Water and Soil Resources

Data Request 87:

Please provide physical and chemical data on the groundwater proposed to be pumped.

Response:

KRCD expects to have a response available in March 2008.



**KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89**

Technical Area: Water and Soil Resources

Data Request 88:

Please provide modeling or numerical calculations that describe how the percolated wastewater would be captured by the proposed groundwater wells.

Response:

KRCD expects to have a response available in March 2008.



KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89

Technical Area: Water and Soil Resources

Data Request 89:

Please provide an economic and environmental analysis of air-cooling, air-cooling in combination with a mechanical air-chiller, or a hybrid of air-cooling and limited reclaimed water use.

Response:

KRCD believes that its use of wastewater treated on site to Title 22 reclaimed water standards and then supplemented by percolated effluent through the shallow groundwater well system complies with the CEC's 2003 Integrated Energy Policy Report (IEPR) for the reasons outlined in AFC Chapter 9-Project Alternatives. Included in Section 9.13 is a discussion of alternative cooling systems. A detailed economic analysis is not provided because KRCD believes the project, as designed, complies with CEC and State Water Resources Control Board policies and does not result in significant environmental impacts requiring mitigation.



**KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89**

Technical Area: Traffic and Transportation

Additional Data Request 1:

Please clarify the average and peak number of construction workers expected to be required for the 24 to 27 month construction period.

Response:

The average number of construction workers for the 24 to 27 month construction period will be 288 people as stated in AFC Section 8.6.3.2 page 9. The construction workforce will peak with approximately 700 people as stated in AFC Section 8.6.3.2 page 9.



**KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89**

Technical Area: Traffic and Transportation

Additional Data Request 2:

Please clarify how many peak hour construction workforce trips and peak hour truck trips are expected to be generated during peak construction of the KRCD CPP.

Response:

580 construction workforce trips and 50 truck trips are expected during peak construction.



**KINGS RIVER CONSERVATION DISTRICT COMMUNITY POWER PLANT
APPLICATION FOR CERTIFICATION (07-AFC-7)
RESPONSES TO DATA REQUESTS 1-89**

Technical Area: Traffic and Transportation

Additional Data Request 3:

Please confirm which workforce and trip numbers were used for analysis of traffic impacts.

Response:

The workforce and trip numbers provided in AFC Section 8.6-Traffic and Transportation and as clarified in Additional Data Requests 1 and 2 were the numbers used in the analysis of traffic impacts.

